

Algebra II Lesson #5 Unit 3
Class Worksheet #5
For Worksheet #5

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

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1. How long will it take to fill the tank? _____

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1. How long will it take to fill the tank? _____

$$V =$$

Algebra II Class Worksheet #5 Unit 3

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Let t represent the time that water has been pumped into the tank (in **minutes**).

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1. How long will it take to fill the tank? _____

$$V = LWH$$

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$$V =$$

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1. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

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$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V =$$

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1. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 72$$

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1. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 72 \text{ cu. ft.}$$

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1. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 72 \text{ cu. ft.}$$

$$\text{Time} =$$

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$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 72 \text{ cu. ft.}$$

$$\text{Time} = 72 \text{ cu. ft.}$$

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$$V = LWH$$

$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 72 \text{ cu. ft.}$$

$$\text{Time} = 72 \text{ cu. ft.} \div$$

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$$V = LWH$$

$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 72 \text{ cu. ft.}$$

$$\text{Time} = 72 \text{ cu. ft.} \div 4 \text{ cu. ft. per min.}$$

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$$V = LWH$$

$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 72 \text{ cu. ft.}$$

$$\text{Time} = 72 \text{ cu. ft.} \div 4 \text{ cu. ft. per min.}$$

$$\text{Time} =$$

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1. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 72 \text{ cu. ft.}$$

$$\text{Time} = 72 \text{ cu. ft.} \div 4 \text{ cu. ft. per min.}$$

$$\text{Time} = 18 \text{ minutes}$$

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A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

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$$V = LWH$$

$$V = (6 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 72 \text{ cu. ft.}$$

$$\text{Time} = 72 \text{ cu. ft.} \div 4 \text{ cu. ft. per min.}$$

$$\text{Time} = 18 \text{ minutes}$$

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Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank? 18 minutes

2. **Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.**

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A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

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2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	
3	
6	
9	
12	
15	
18	

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1. How long will it take to fill the tank? 18 minutes

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

When $t = 0$, the tank is empty.

t	$f(t)$
0	
3	
6	
9	
12	
15	
18	

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

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1. How long will it take to fill the tank? 18 minutes

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	
3	
6	
9	
12	
15	
18	

**When $t = 0$, the tank is empty.
The water is 0 inches deep.**

Algebra II Class Worksheet #5 Unit 3

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1. How long will it take to fill the tank? 18 minutes

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	

**When $t = 0$, the tank is empty.
The water is 0 inches deep.**

Algebra II Class Worksheet #5 Unit 3

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1. How long will it take to fill the tank? 18 minutes

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	

When $t = 0$, the tank is empty.

The water is 0 inches deep.

Algebra II Class Worksheet #5 Unit 3

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t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	

**When $t = 0$, the tank is empty.
The water is 0 inches deep.**



Algebra II Class Worksheet #5 Unit 3

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1. How long will it take to fill the tank? 18 minutes

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	

When $t = 0$, the tank is empty.

The water is 0 inches deep.

When $t = 18$, the tank is full.

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A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

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2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	

When $t = 0$, the tank is empty.

The water is 0 inches deep.

When $t = 18$, the tank is full.

The water is 36 inches deep.

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

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1. How long will it take to fill the tank? 18 minutes

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	
6	
9	
12	
15	
→ 18	36

When $t = 0$, the tank is empty.

The water is 0 inches deep.

When $t = 18$, the tank is full.

The water is 36 inches deep.

Algebra II Class Worksheet #5 Unit 3

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t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	36

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t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	36



**The water depth increases
36 inches**

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t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

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t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

**It increases at 2 inches
per minute.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

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2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

**It increases at 2 inches
per minute.**

**It increases 6 inches
every 3 minutes.**

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t	$f(t)$
0	0
3	
6	
9	
12	
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

**It increases at 2 inches
per minute.**

**It increases 6 inches
every 3 minutes.**

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2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	
9	
12	
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

**It increases at 2 inches
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**It increases 6 inches
every 3 minutes.**

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t	$f(t)$
0	0
3	6
6	
9	
12	
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

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t	$f(t)$
0	0
3	6
6	12
9	
12	
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

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2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	
12	
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

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t	$f(t)$
0	0
3	6
6	12
9	18
12	
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

**It increases at 2 inches
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**It increases 6 inches
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t	$f(t)$
0	0
3	6
6	12
9	18
12	
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

**It increases at 2 inches
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2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	
18	36

**The water depth increases
36 inches in 18 minutes.**

**It increases at 2 inches
per minute.**

**It increases 6 inches
every 3 minutes.**

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A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

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2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36

**The water depth increases
36 inches in 18 minutes.**

**It increases at 2 inches
per minute.**

**It increases 6 inches
every 3 minutes.**

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A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

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1. How long will it take to fill the tank? 18 minutes

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36

**The water depth increases
36 inches in 18 minutes.**

**It increases at 2 inches
per minute.**

**It increases 6 inches
every 3 minutes.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank? 18 minutes

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36

**The water depth increases
36 inches in 18 minutes.**

**It increases at 2 inches
per minute.**

**It increases 6 inches
every 3 minutes.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank? 18 minutes

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

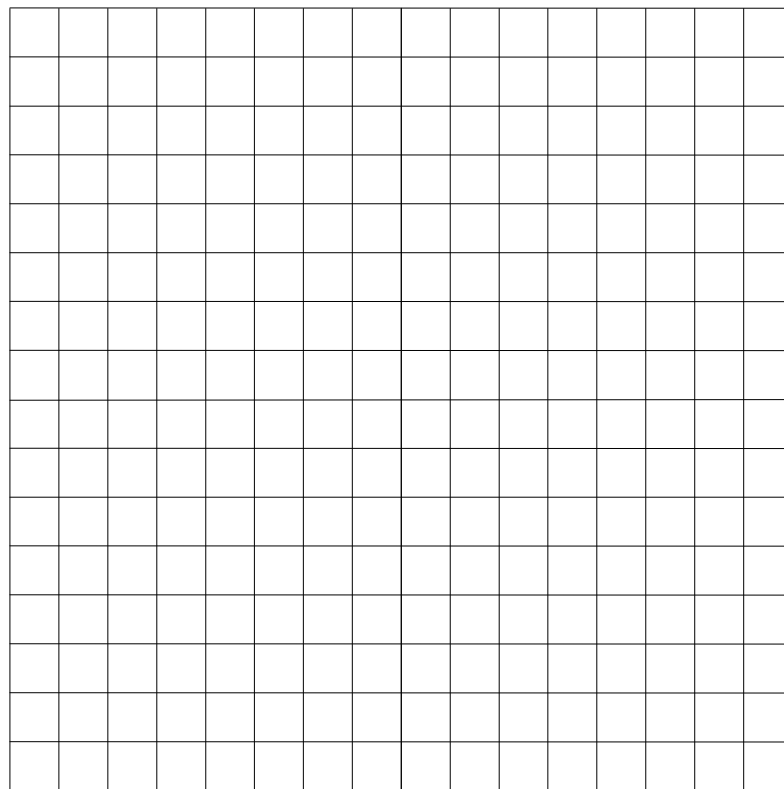
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

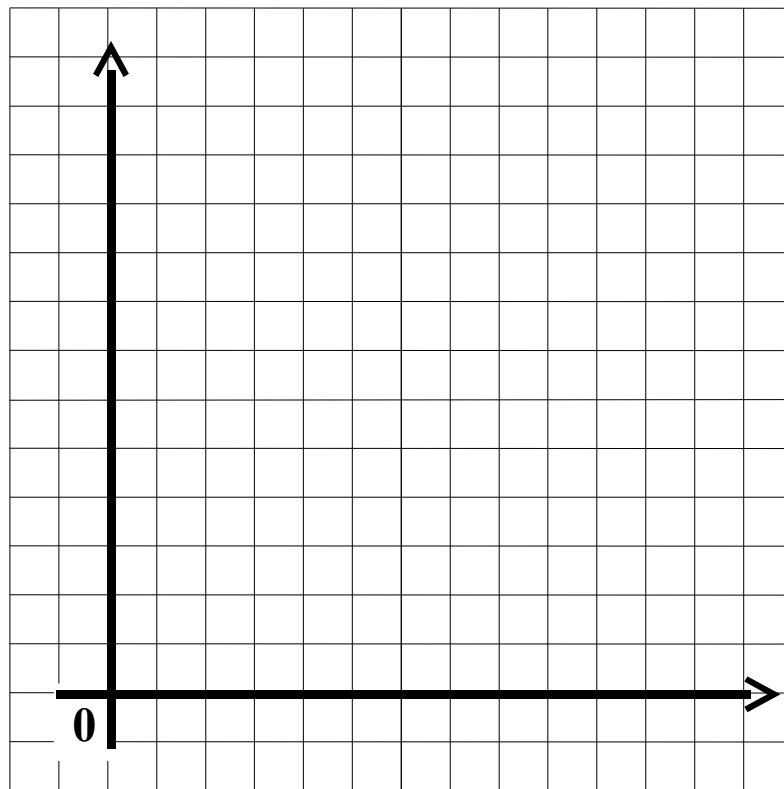
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

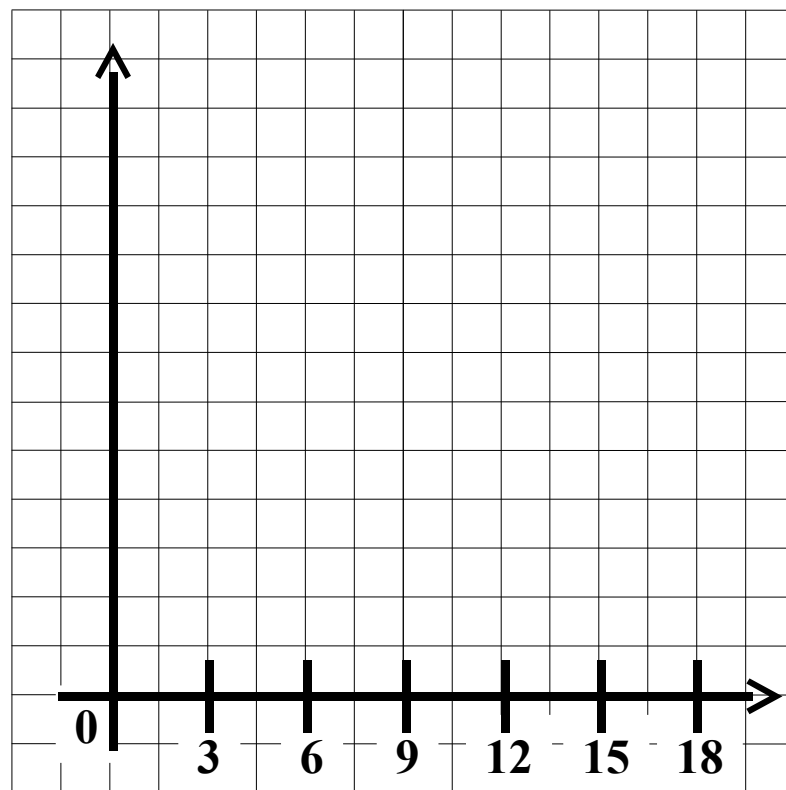
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

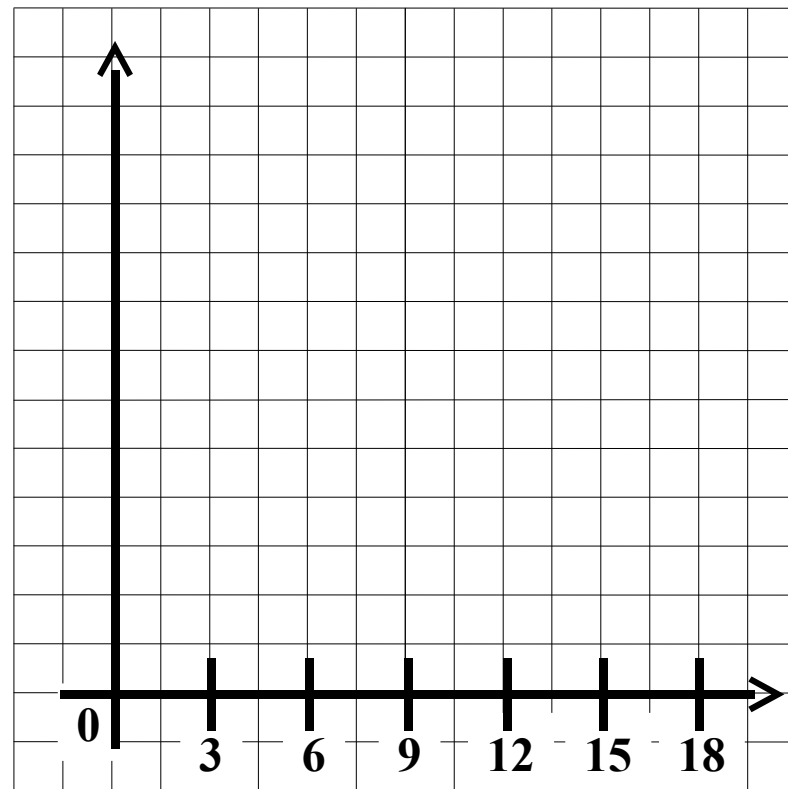
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



t (minutes)

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

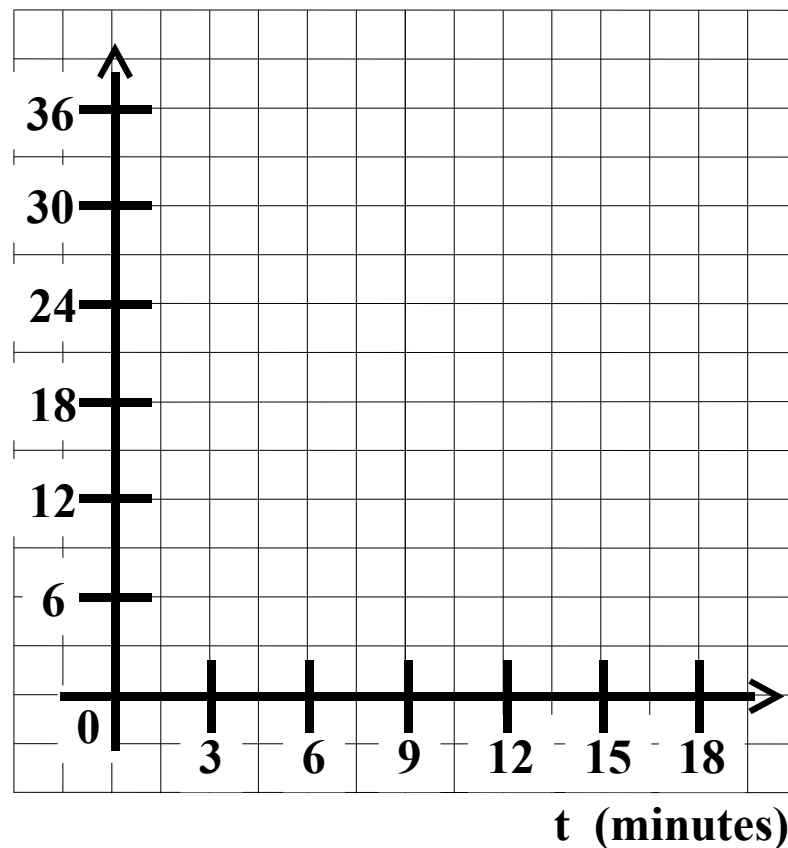
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

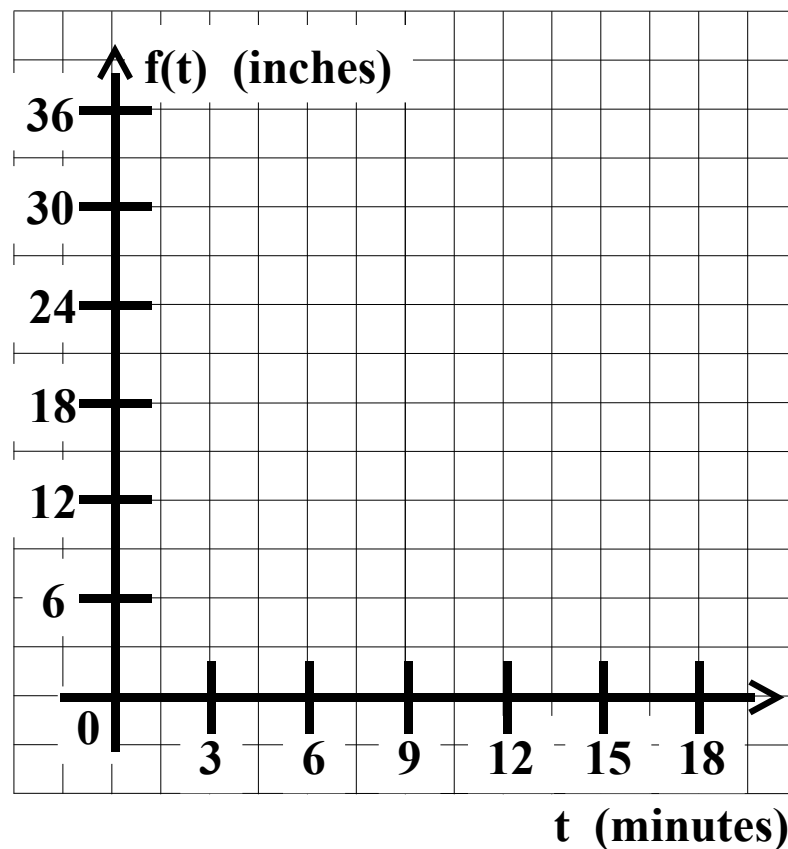
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

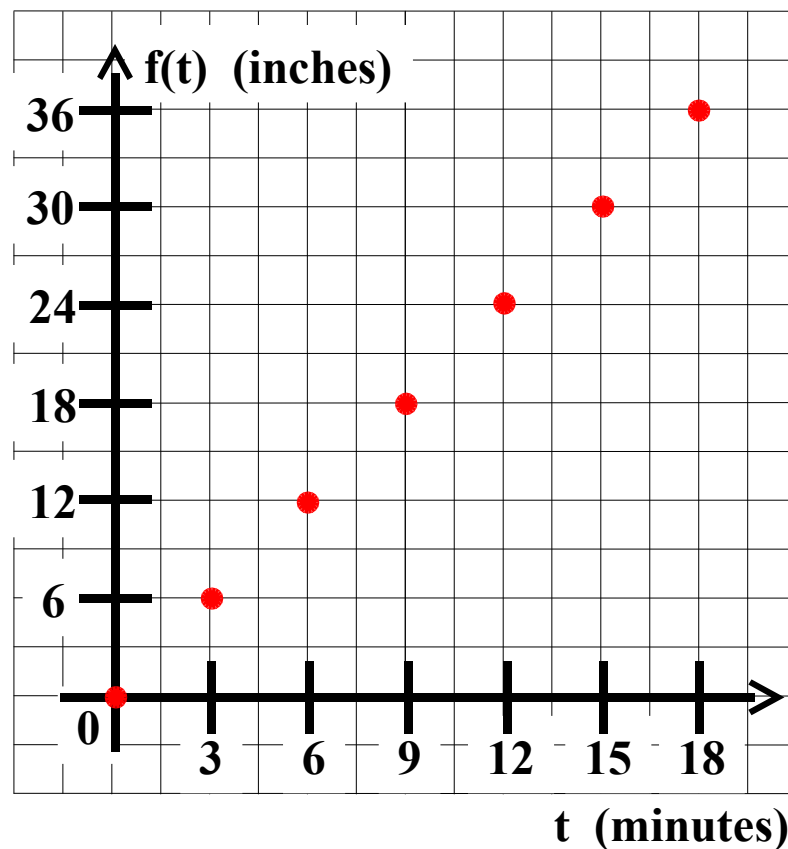
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

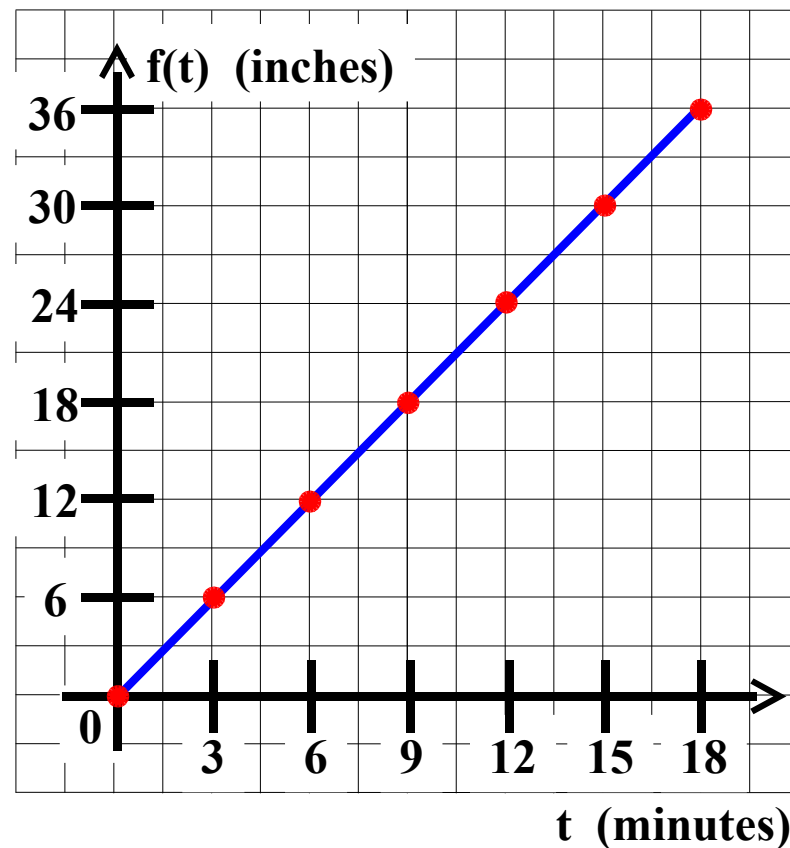
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

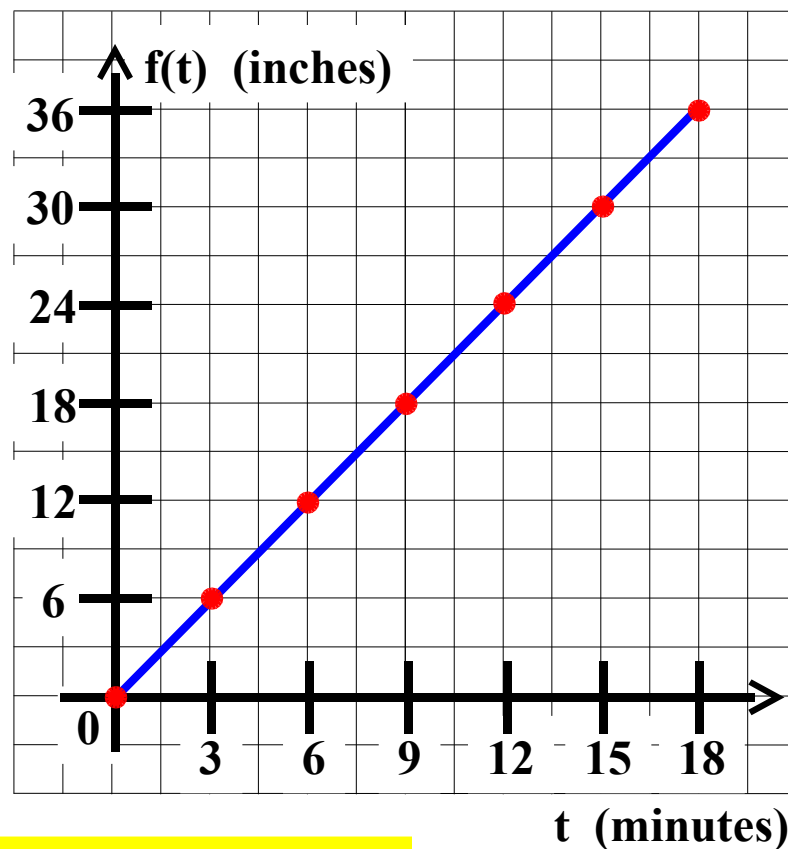
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



4. Write an equation giving $f(t)$ in terms of t .

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

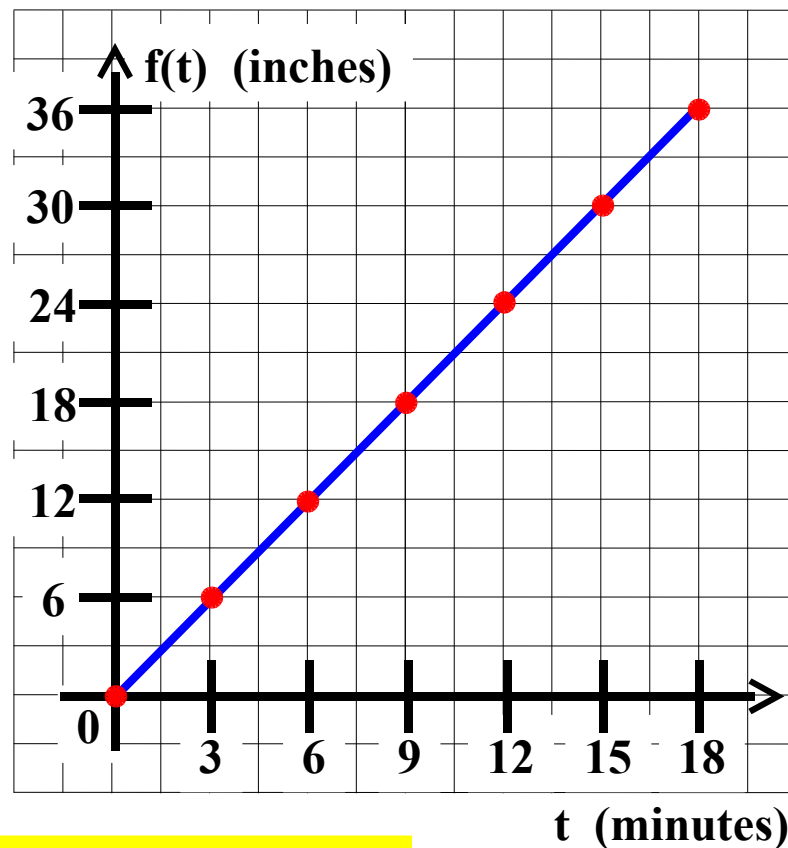
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



4. Write an equation giving $f(t)$ in terms of t . $f(t) =$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

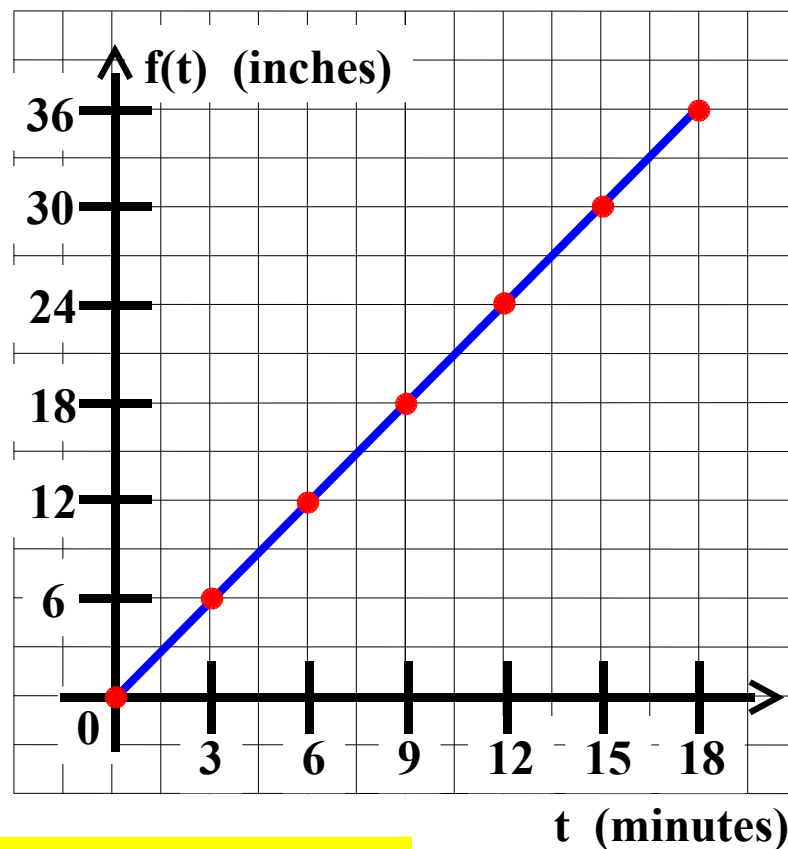
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



4. Write an equation giving $f(t)$ in terms of t . $f(t) = 2t$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

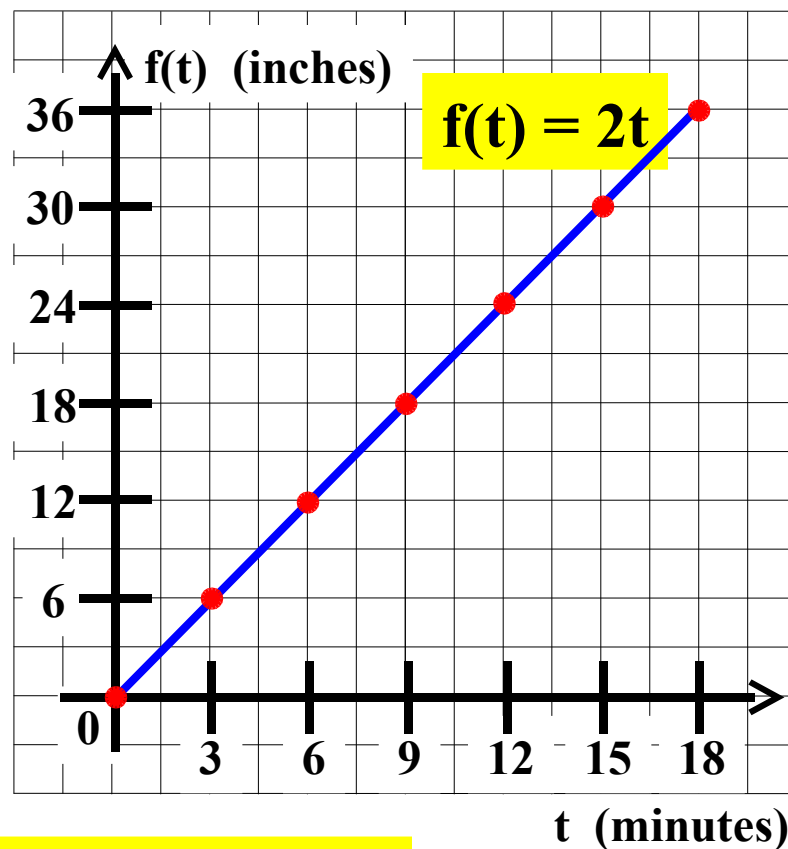
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



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Algebra II Class Worksheet #5 Unit 3

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Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

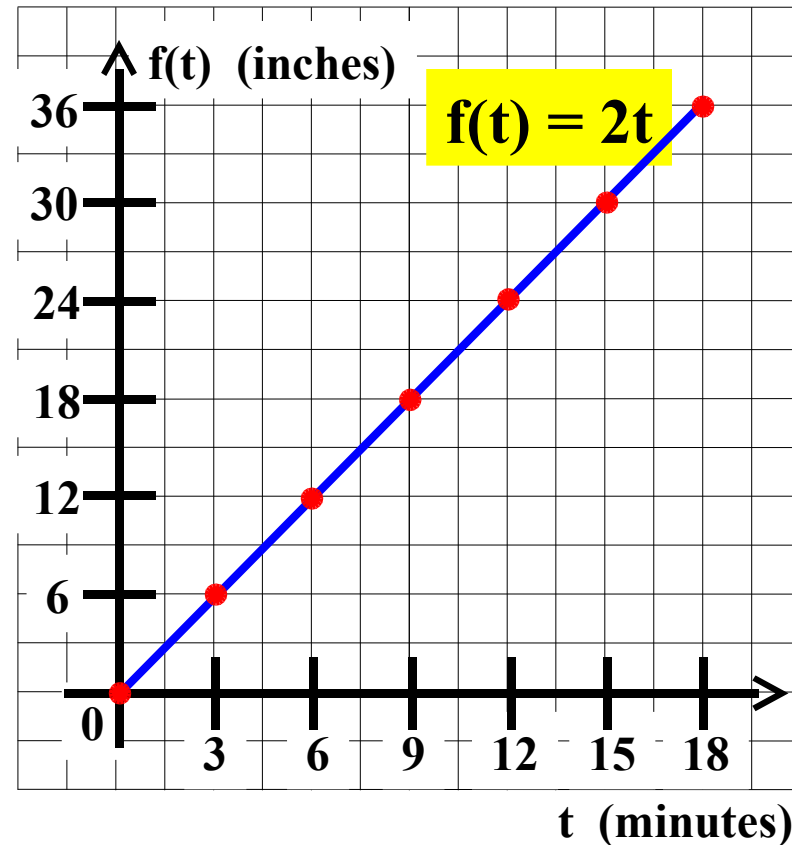
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

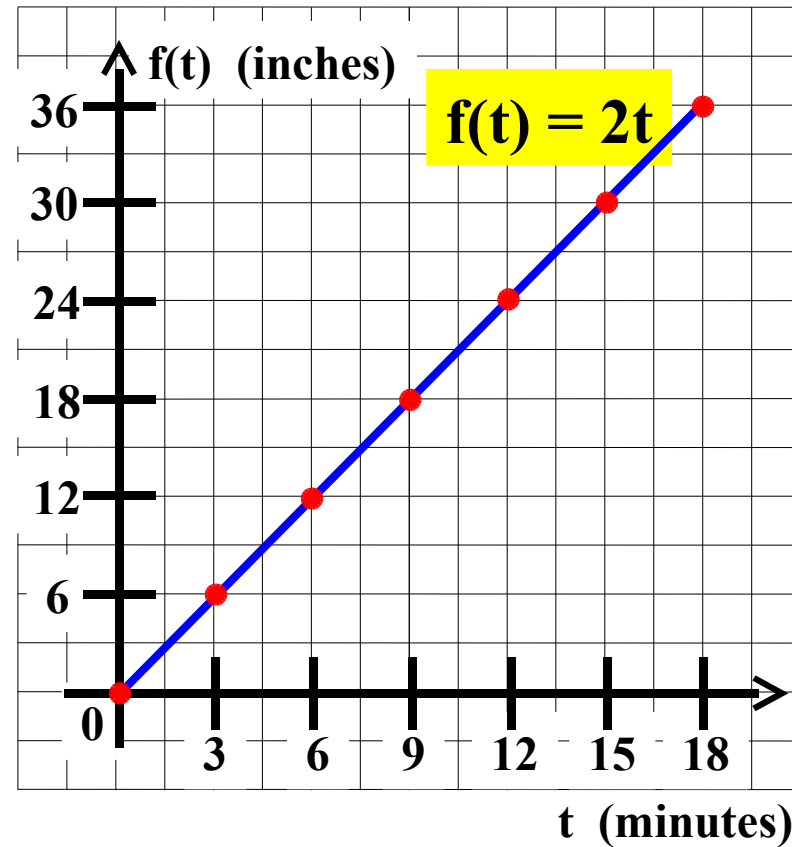
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



5. What is the domain of function f ? _____

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

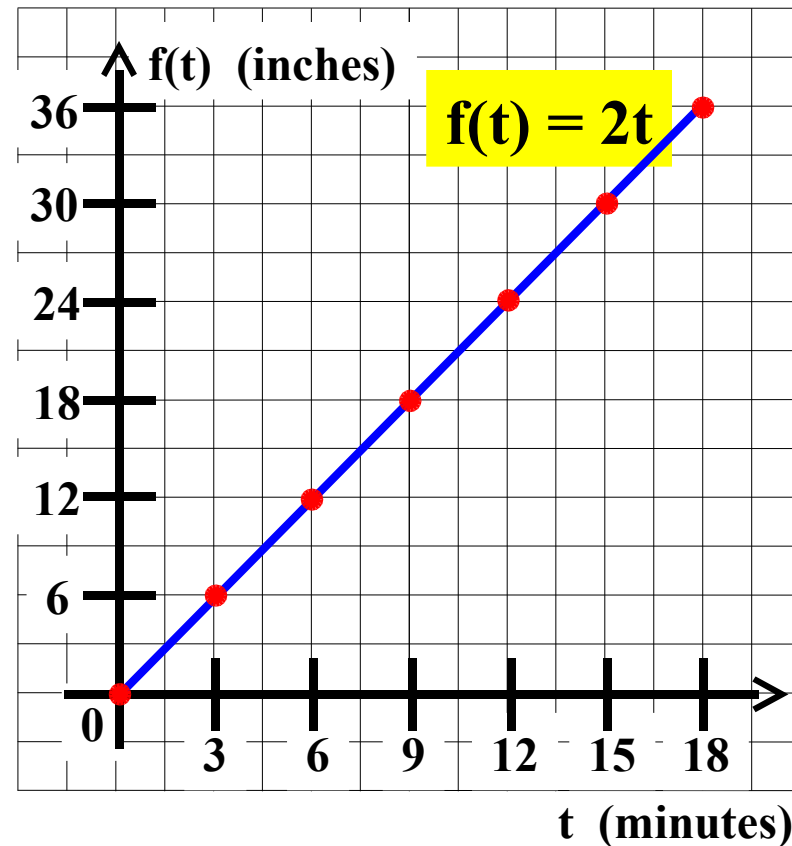
Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank? 18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



5. What is the domain of function f ? _____

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

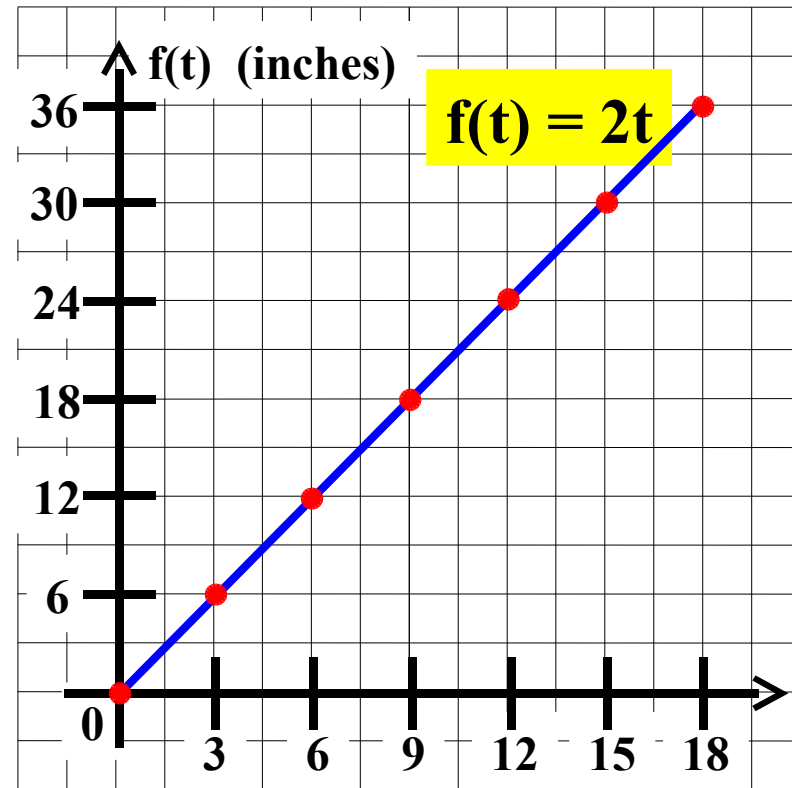
Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank? **18 minutes**

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



5. What is the domain of function f ?

[

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

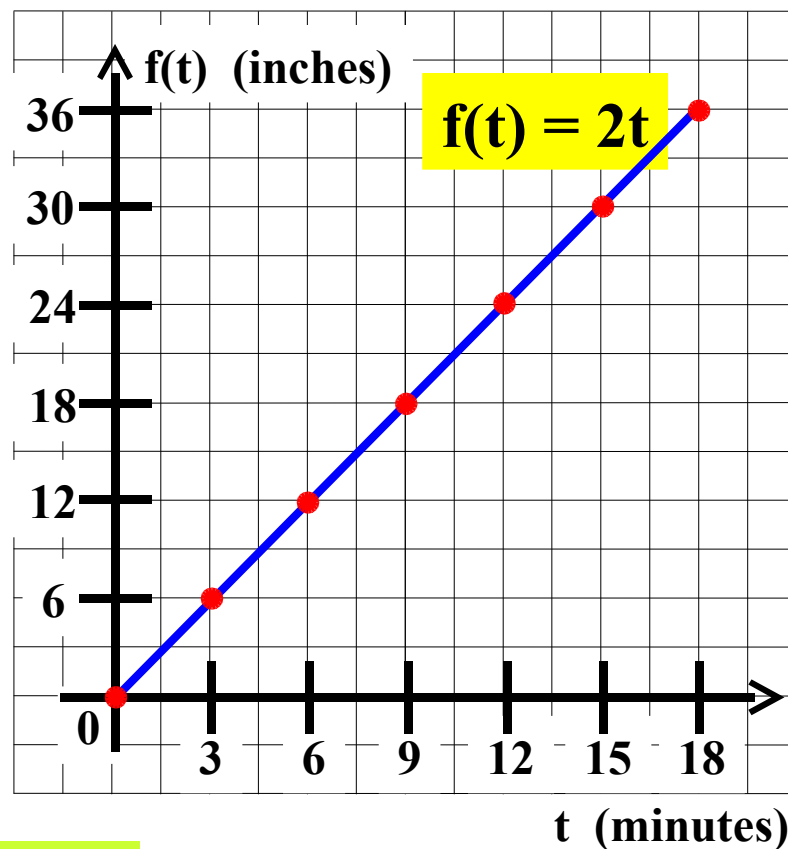
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



5. What is the domain of function f ?

[0,

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

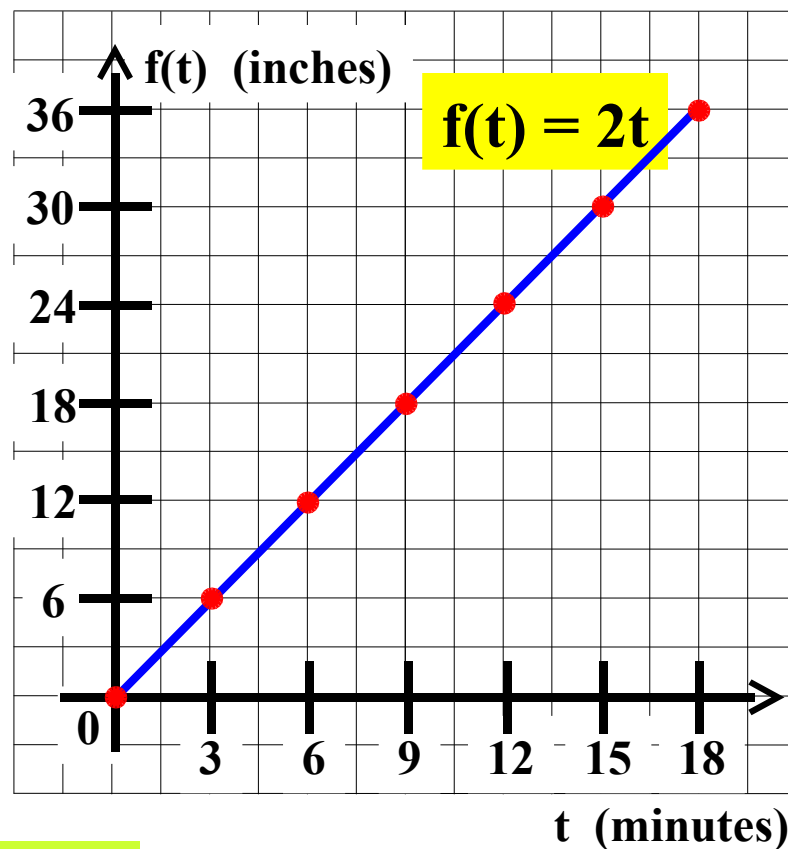
1. How long will it take to fill the tank?

18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



5. What is the domain of function f ?

[0, 18]

Algebra II Class Worksheet #5 Unit 3

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Let t represent the time that water has been pumped into the tank (in **minutes**).

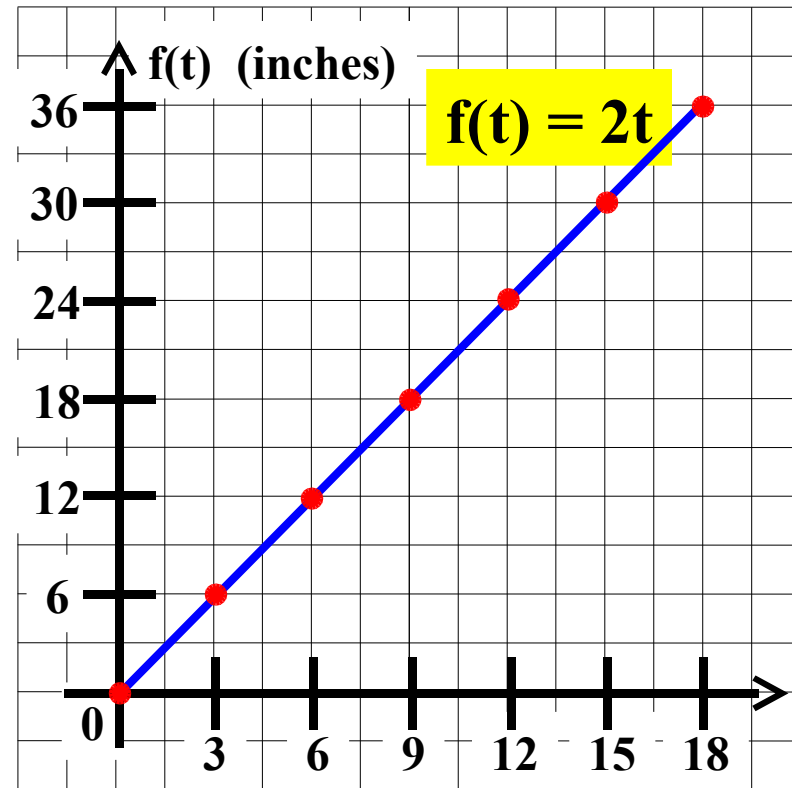
Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank? **18 minutes**

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



5. What is the domain of function f ? **[0, 18]**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank?

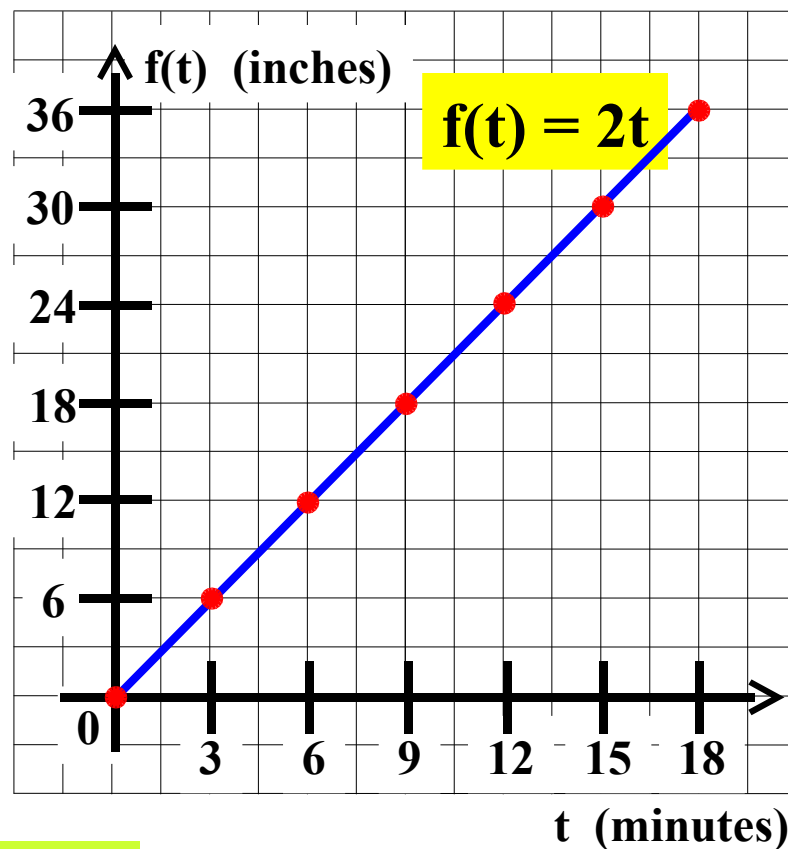
18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36

domain
 $[0, 18]$



5. What is the domain of function f ?

$[0, 18]$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank?

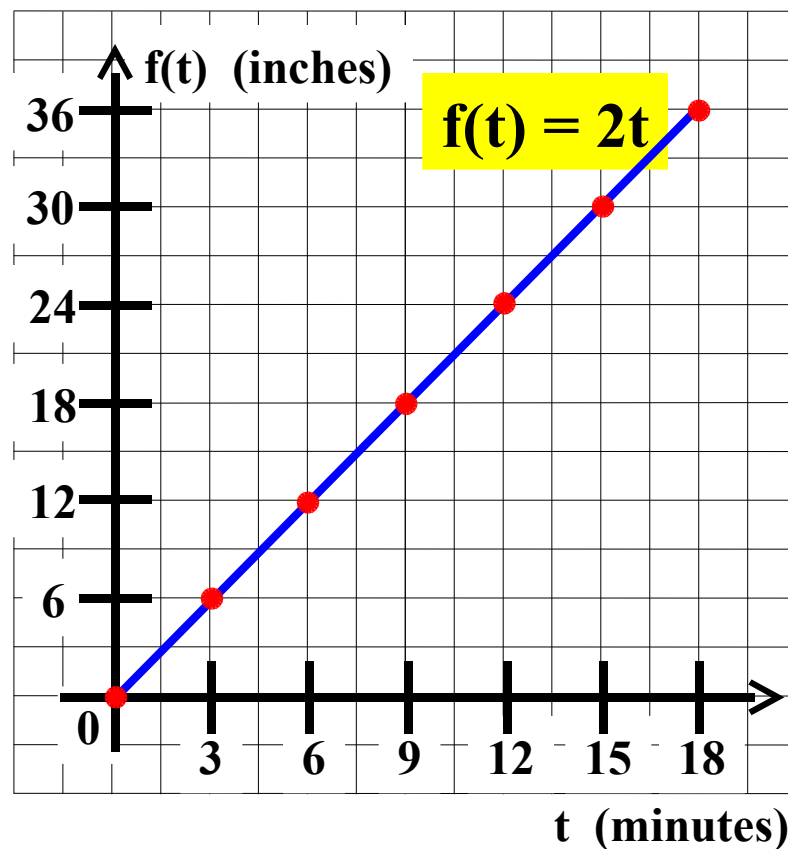
18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36

domain
 $[0, 18]$



Algebra II Class Worksheet #5 Unit 3

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Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank?

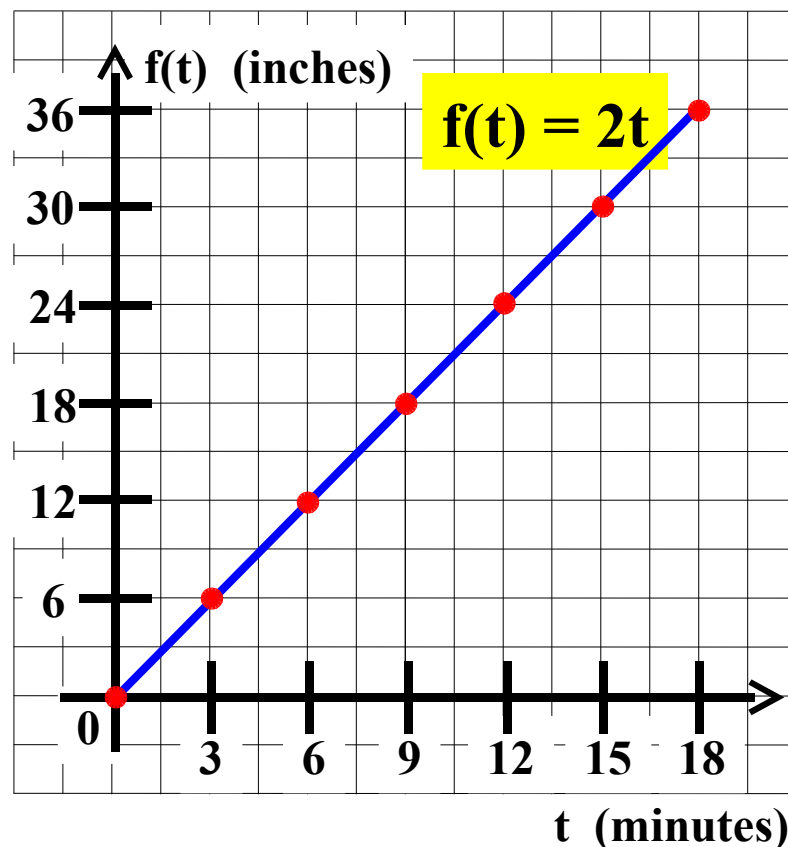
18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

domain
 $[0, 18]$

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



6. What is the range of function f ?

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank?

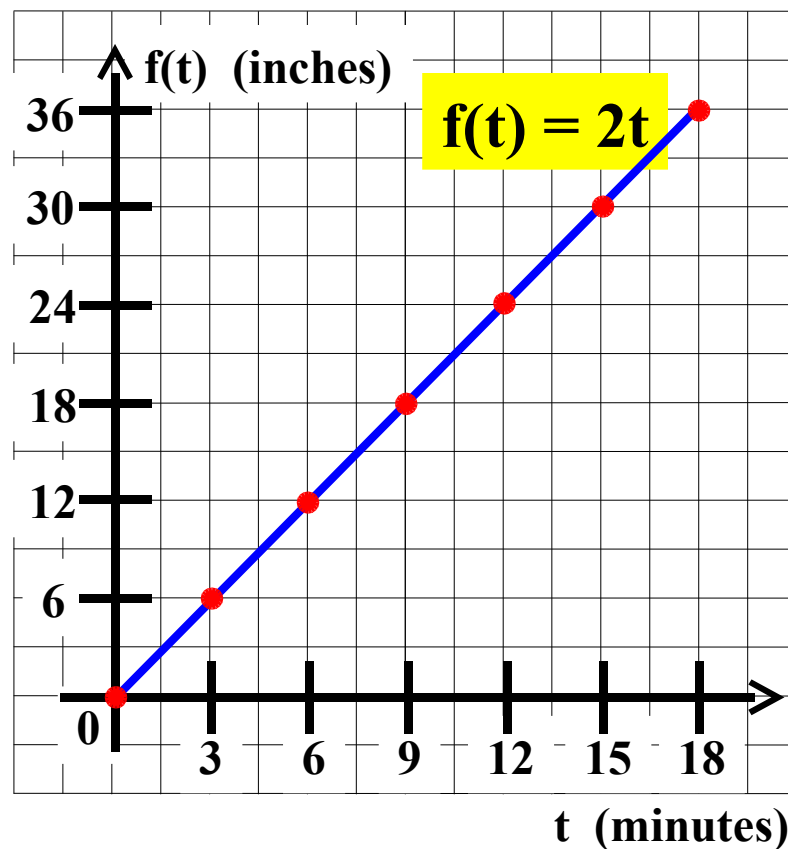
18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36

domain
 $[0, 18]$



6. What is the range of function f ?

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank?

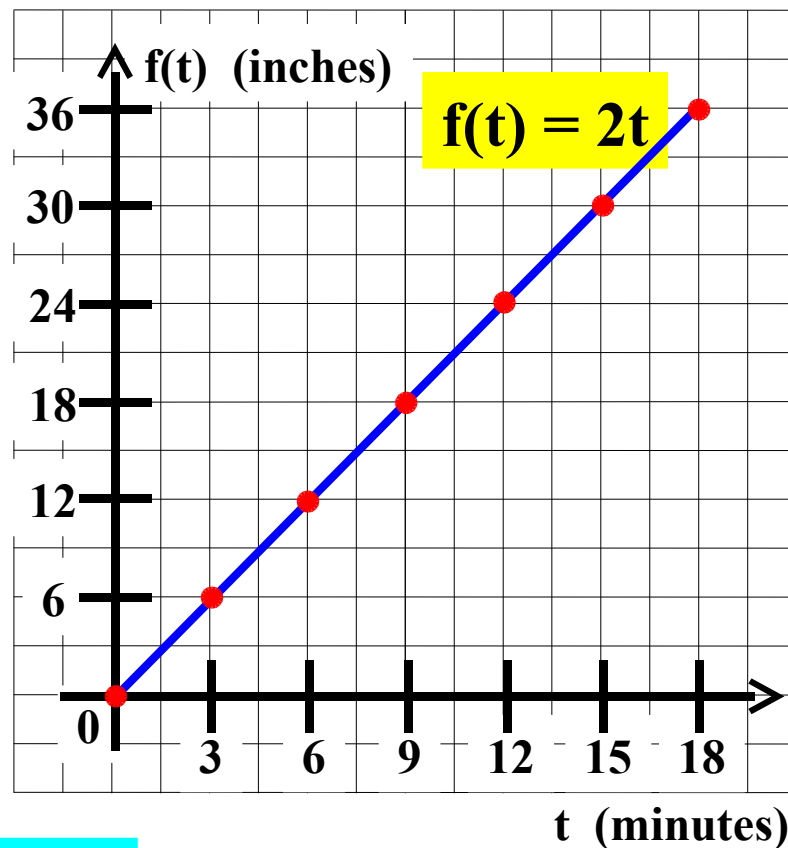
18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

domain
 $[0, 18]$

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



6. What is the range of function f ?

$[0, 36]$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank?

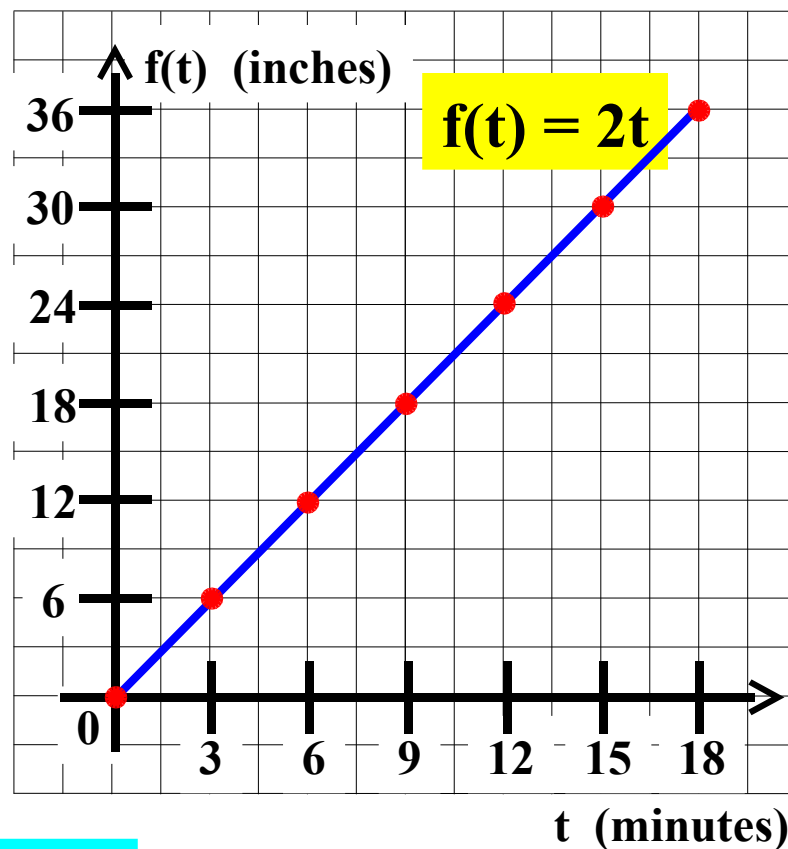
18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

domain
 $[0, 18]$

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36



6. What is the range of function f ?

$[0, 36]$

Algebra II Class Worksheet #5 Unit 3

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Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank?

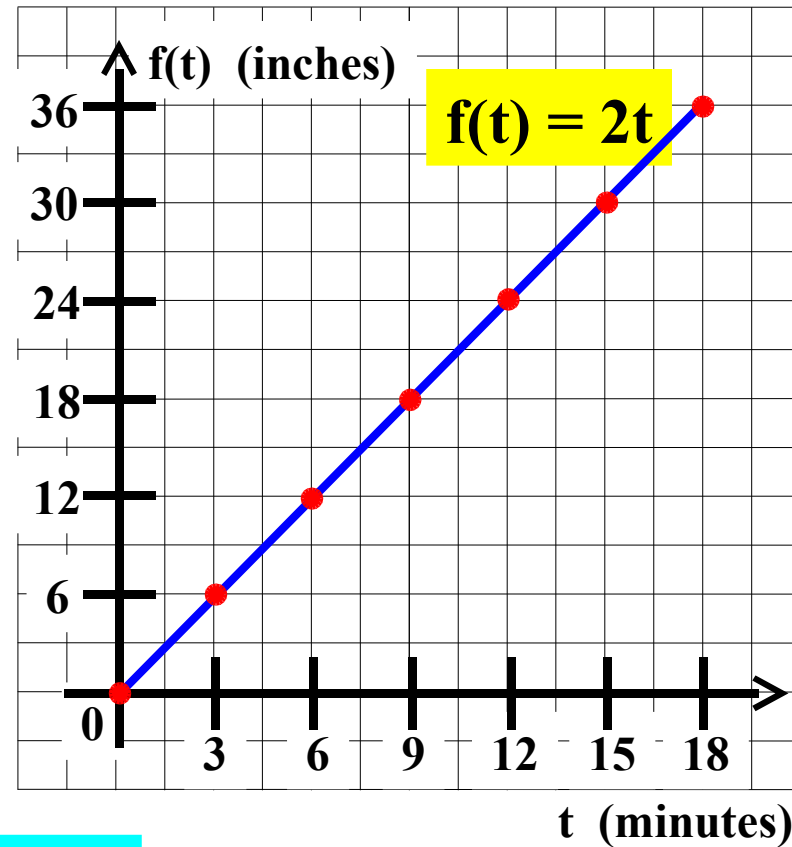
18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36

domain
 $[0, 18]$



6. What is the range of function f ?

$[0, 36]$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

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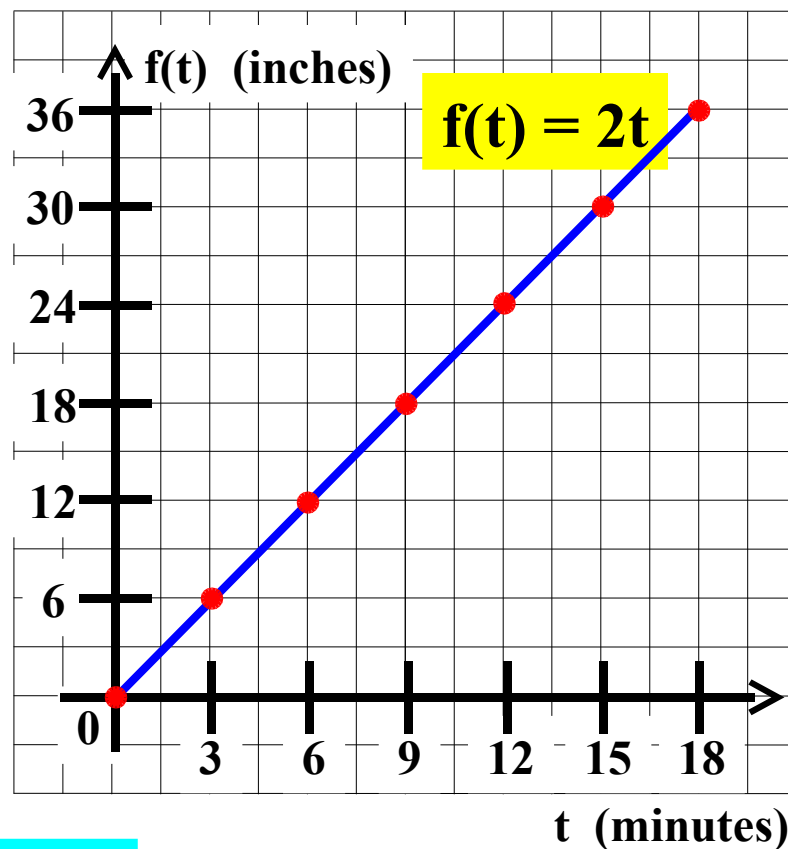
18 minutes

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

domain
 $[0, 18]$

t	$f(t)$
0	0
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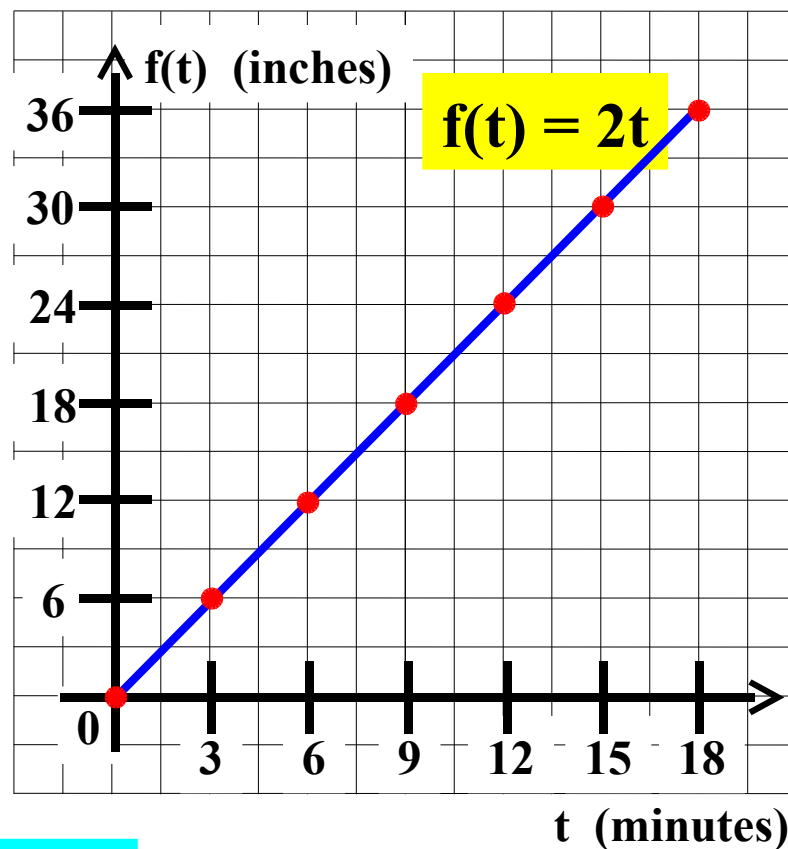
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range

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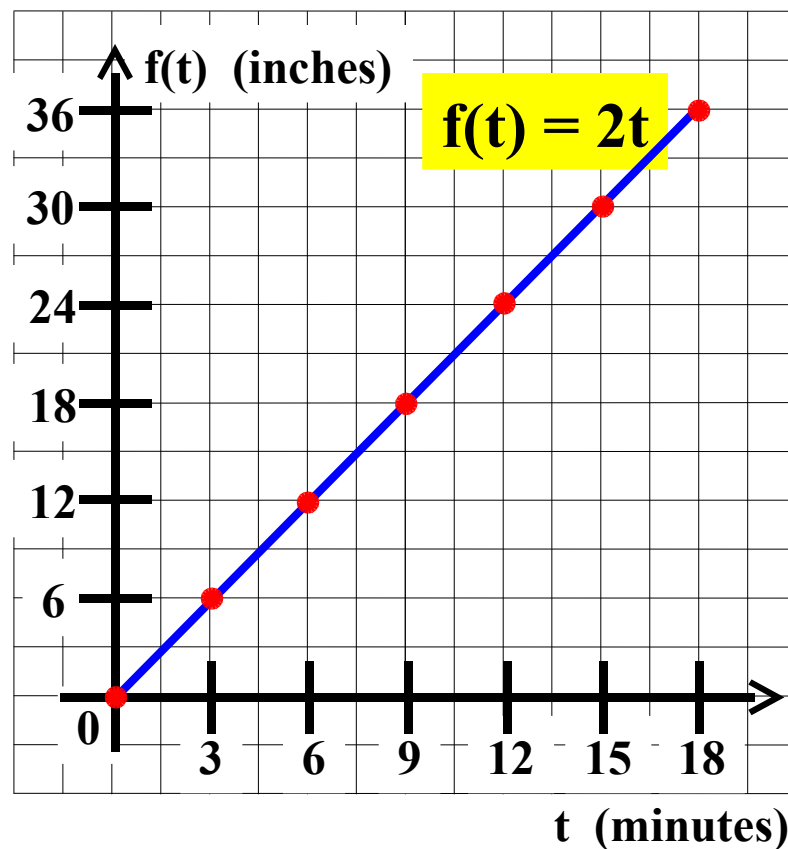
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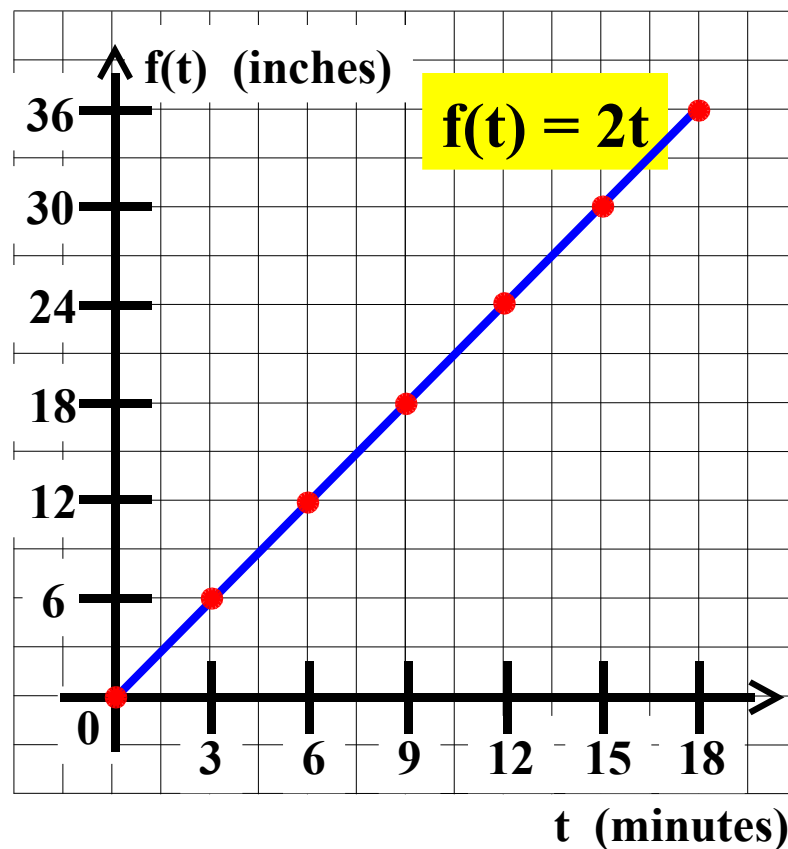
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7. Evaluate $f(4)$.



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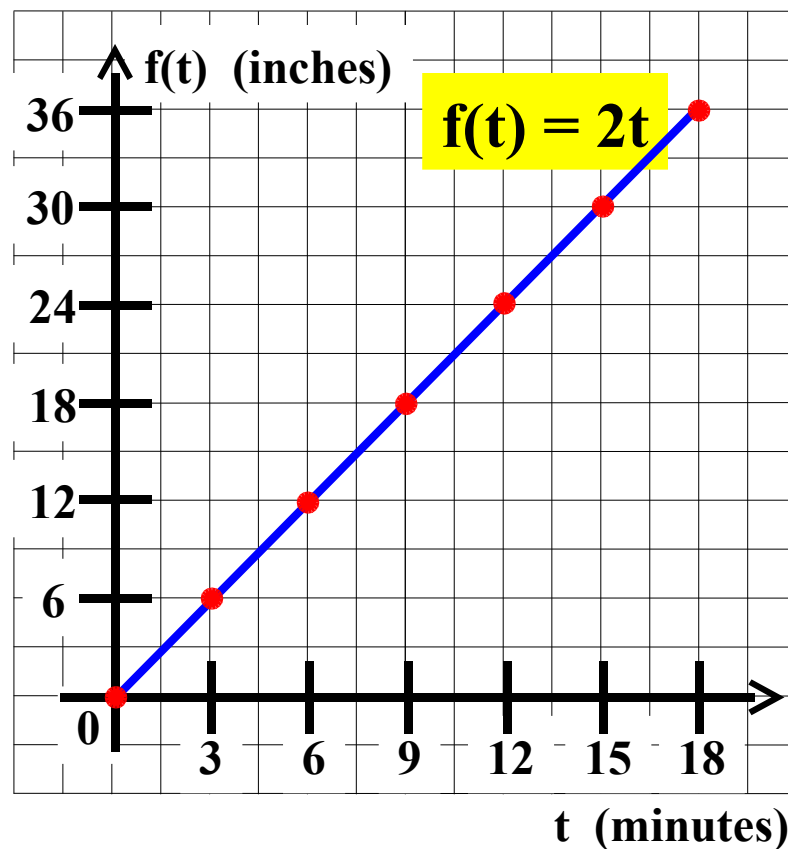
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range

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7. Evaluate $f(4)$.

$$f(t) = 2t$$



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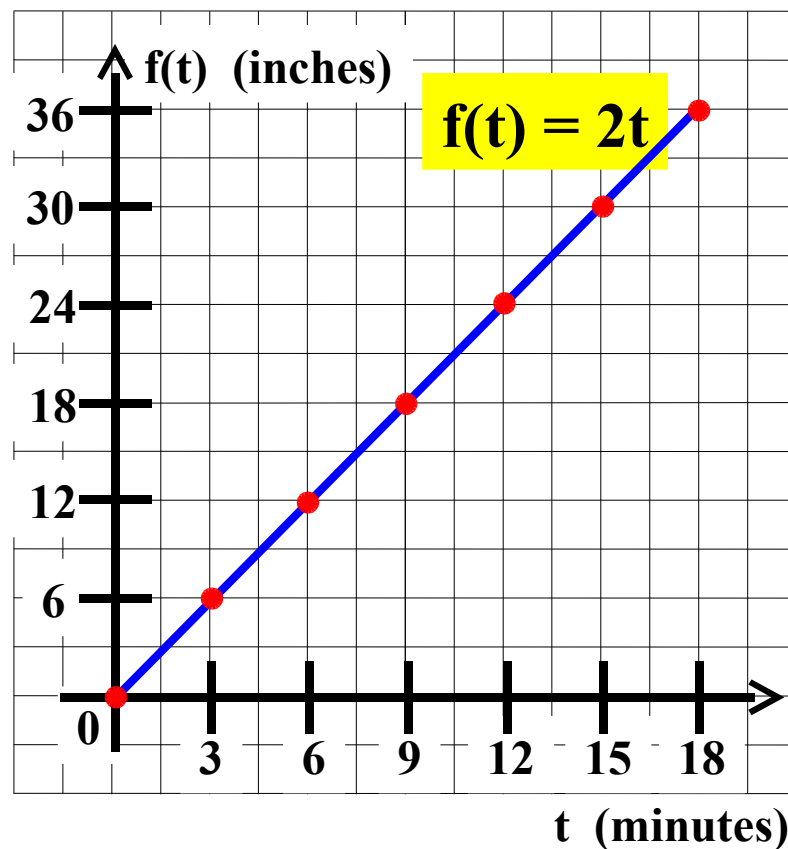
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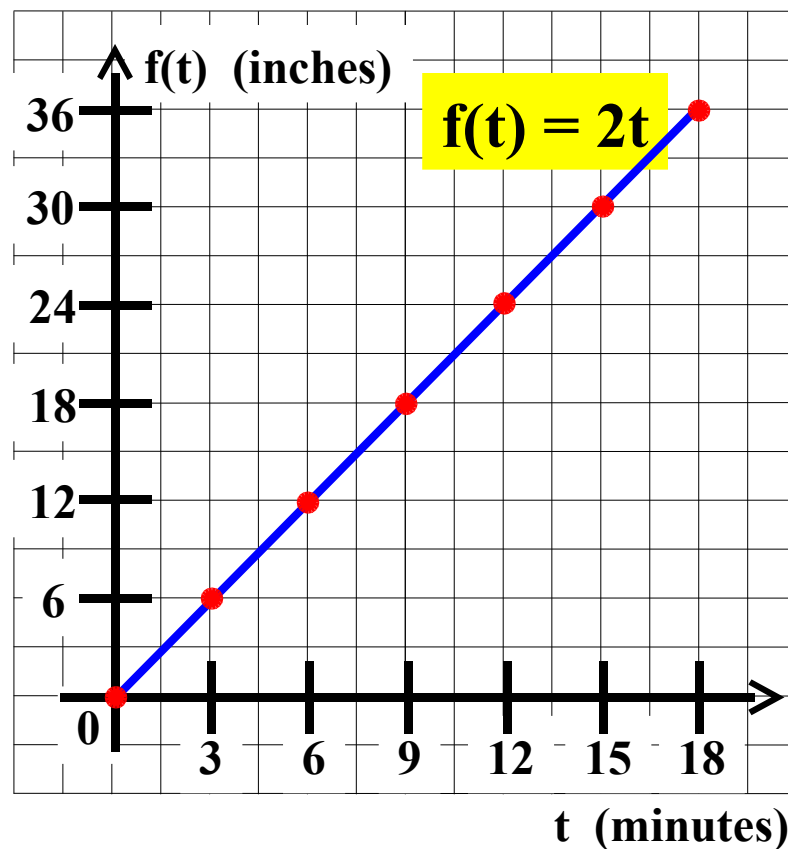
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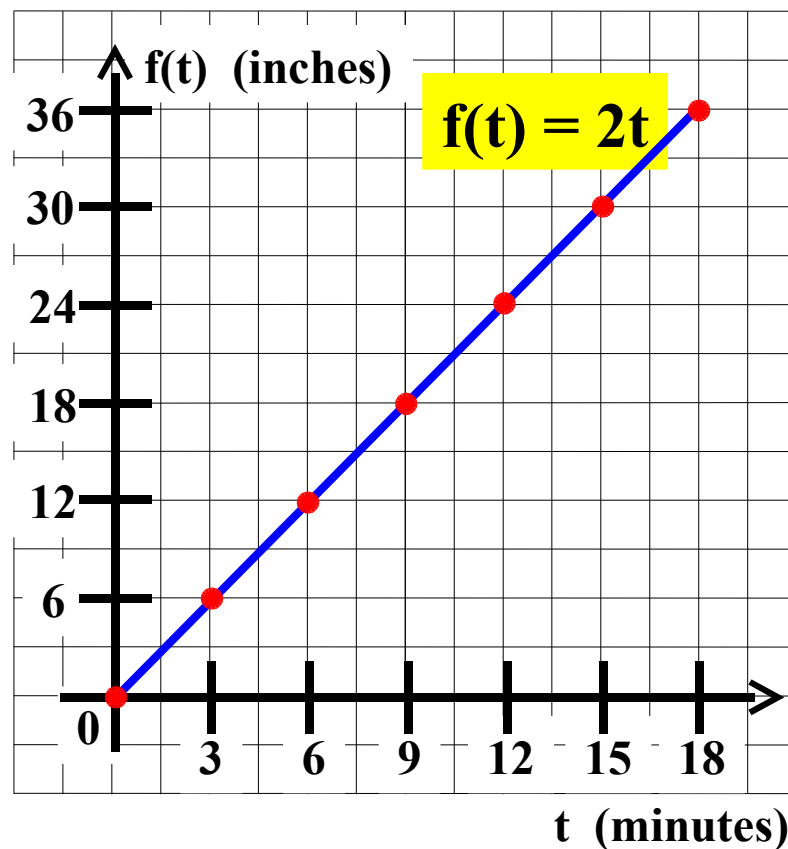
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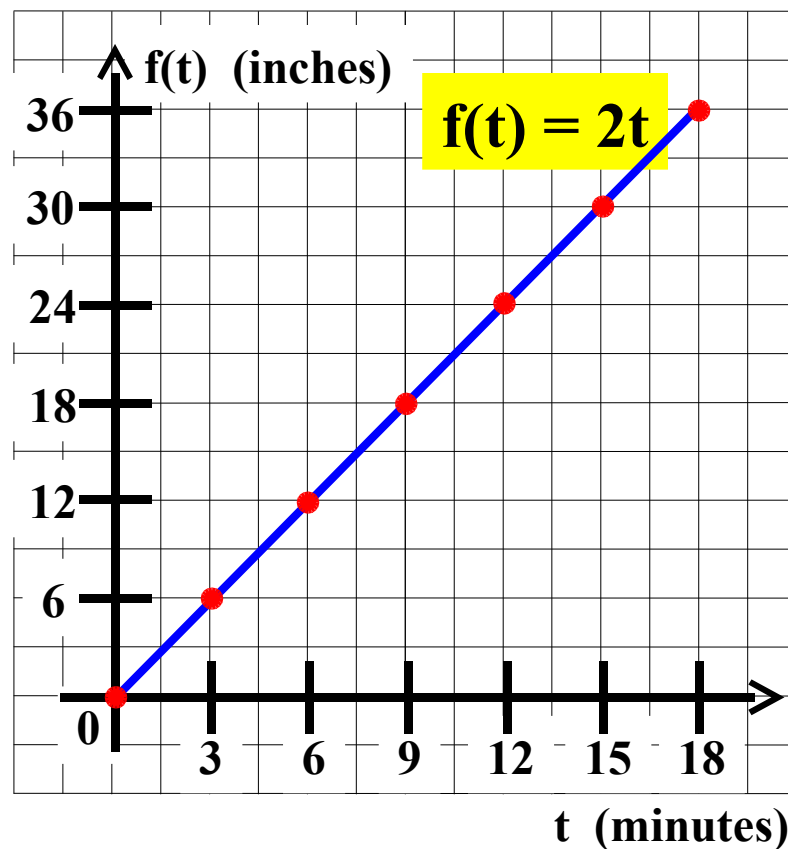
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7. Evaluate $f(4)$.

$$f(t) = 2t$$

$$f(4) = 2(4)$$

$$f(4) = 8$$



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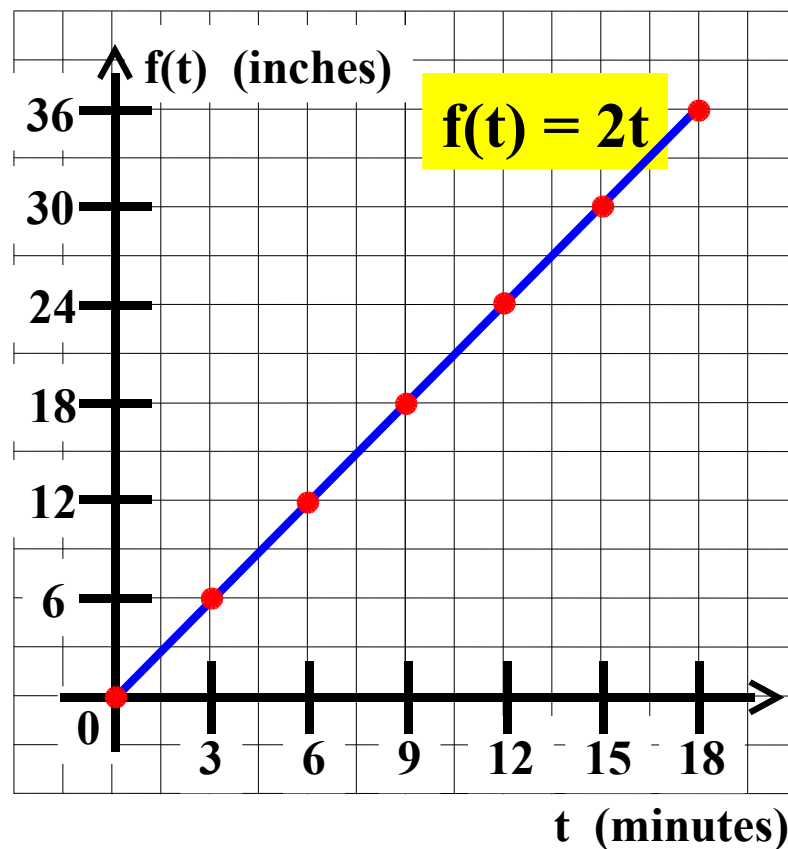
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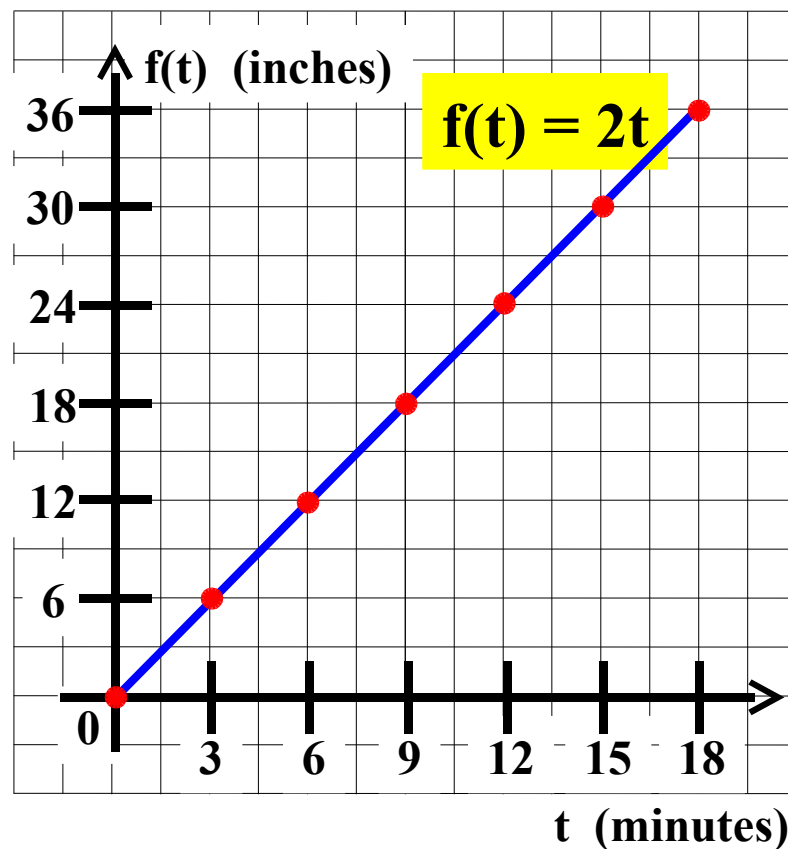
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What does $f(4)$ represent in terms of the problem?

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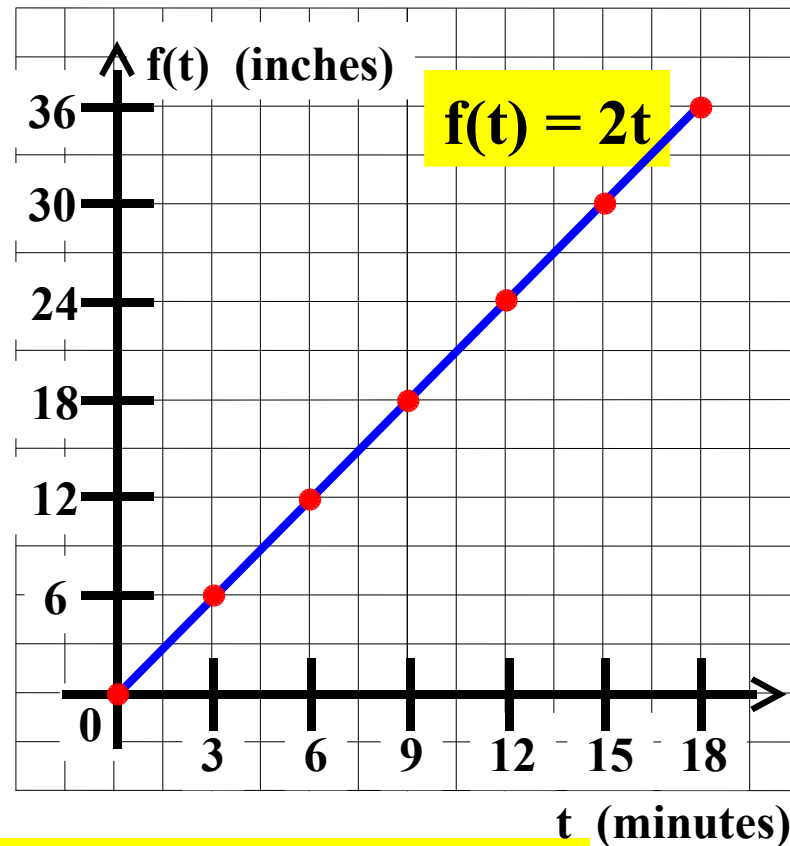
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$f(4)$ represents



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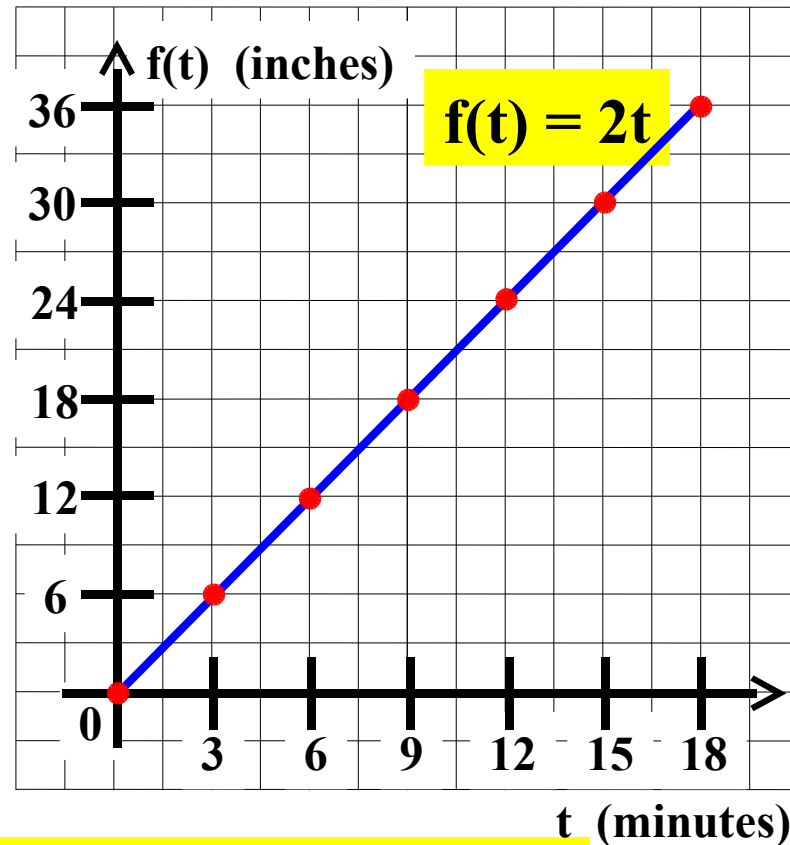
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$$f(4) = 8$$

$f(4)$ represents the depth of the water



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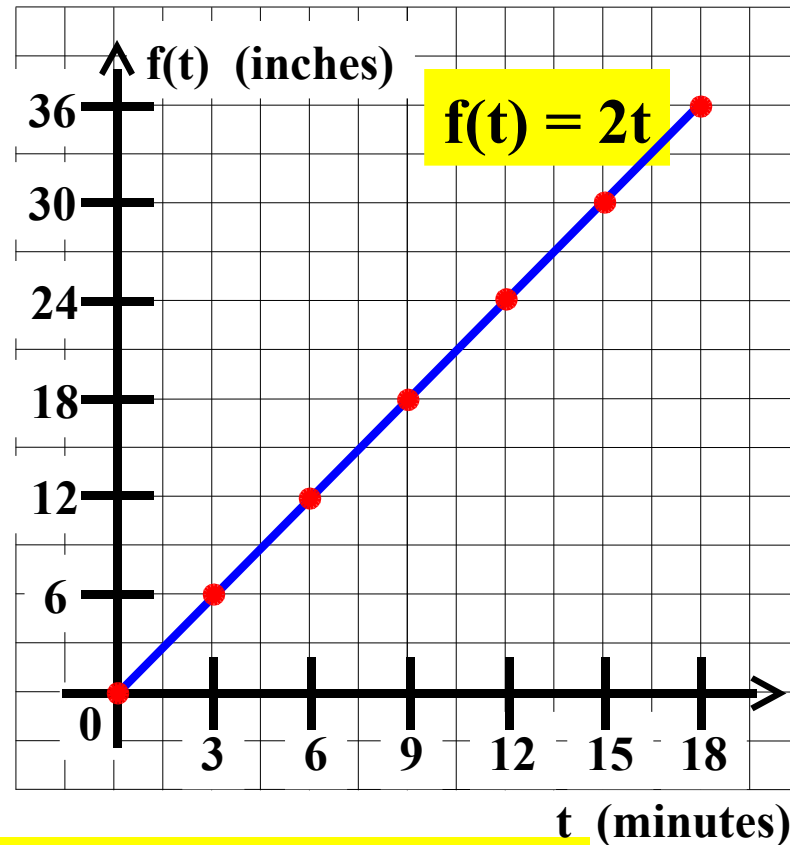
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$$f(4) = 8$$

$f(4)$ represents the depth of the water after 4 minutes.



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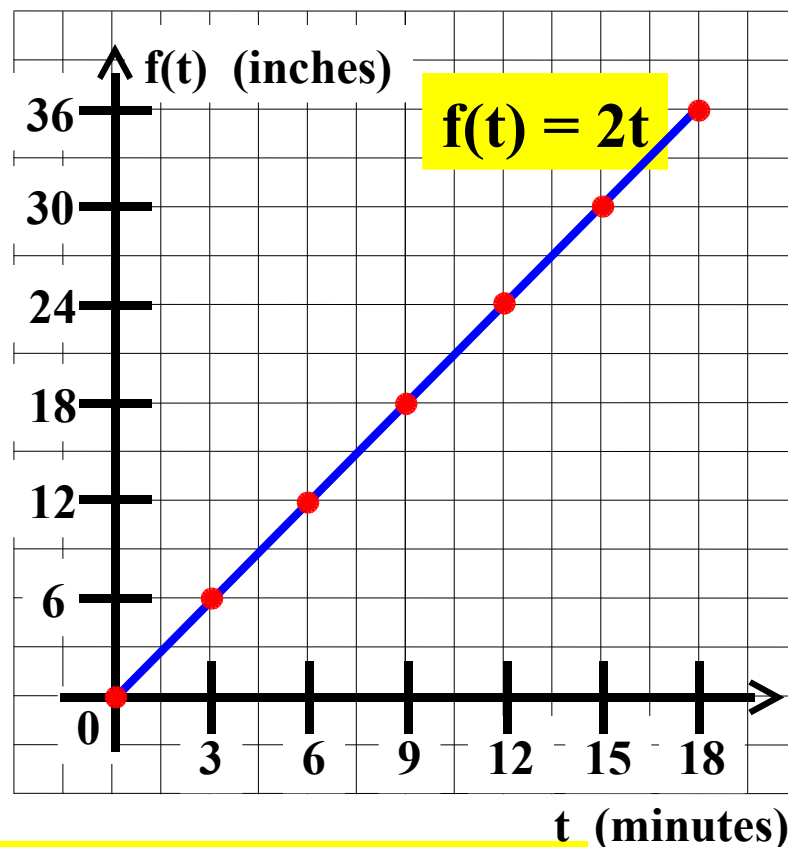
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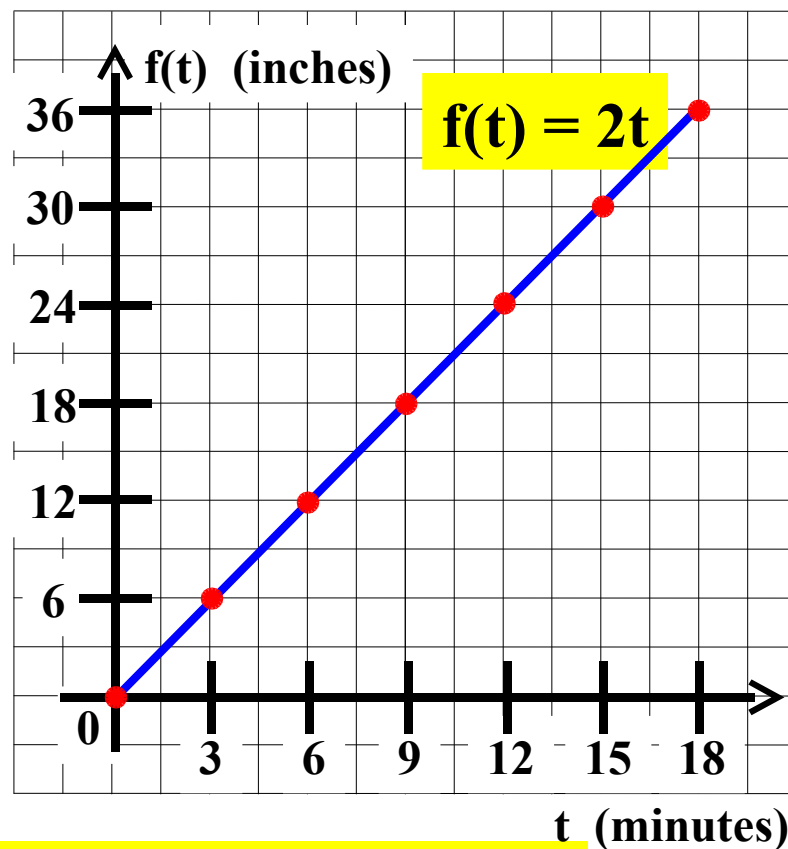
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$f(4) = 8$ inches

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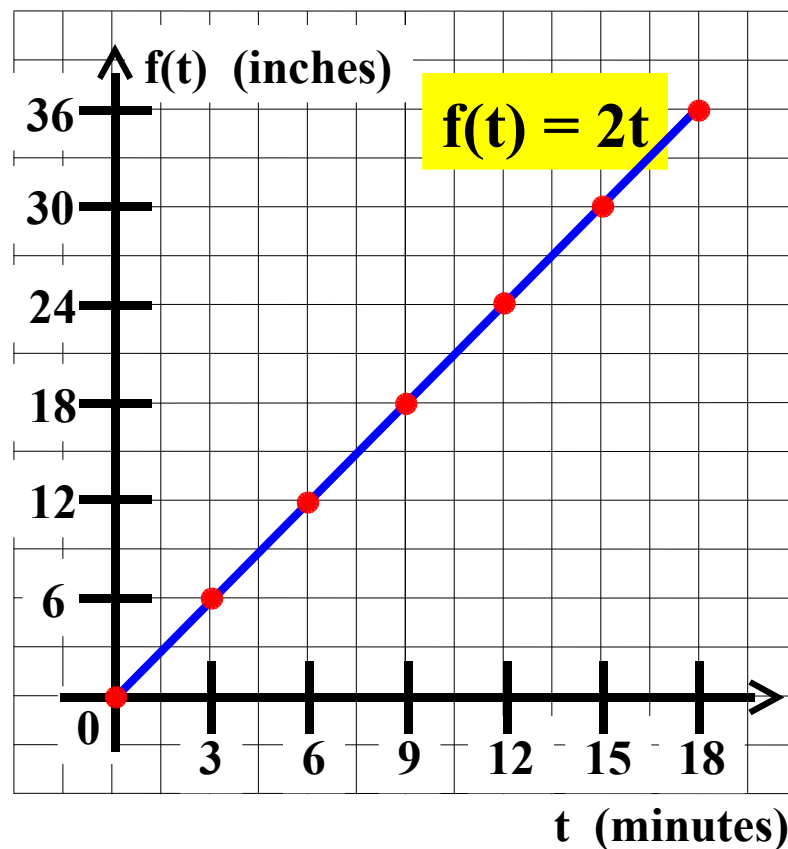
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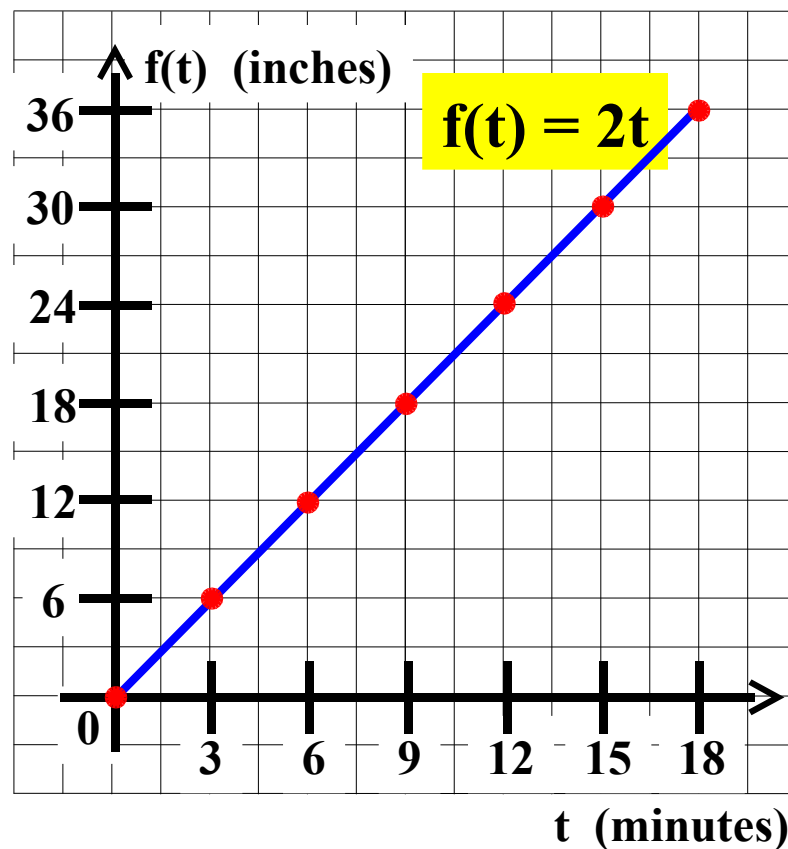
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8. If $f(t) = 30$, then find the value of t .



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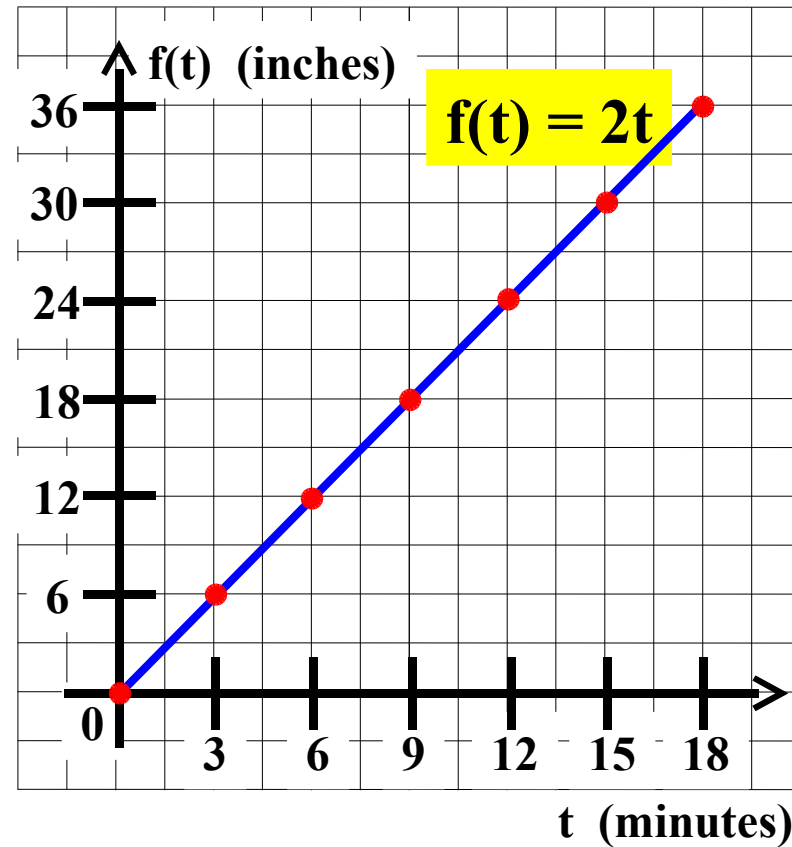
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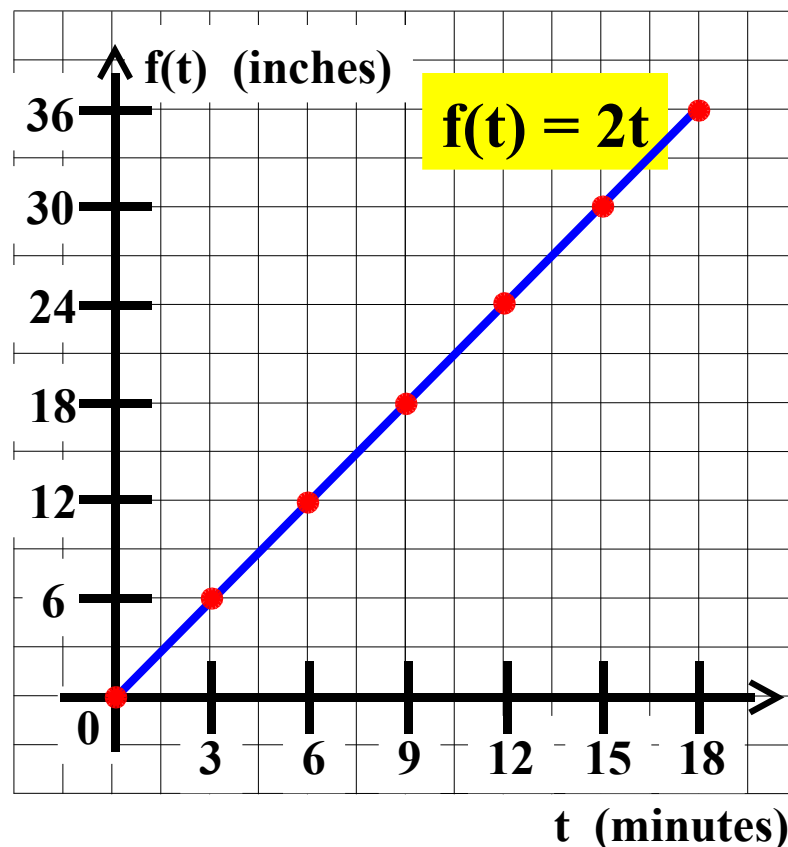
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$$f(t) = 30$$

$$2t = 30$$



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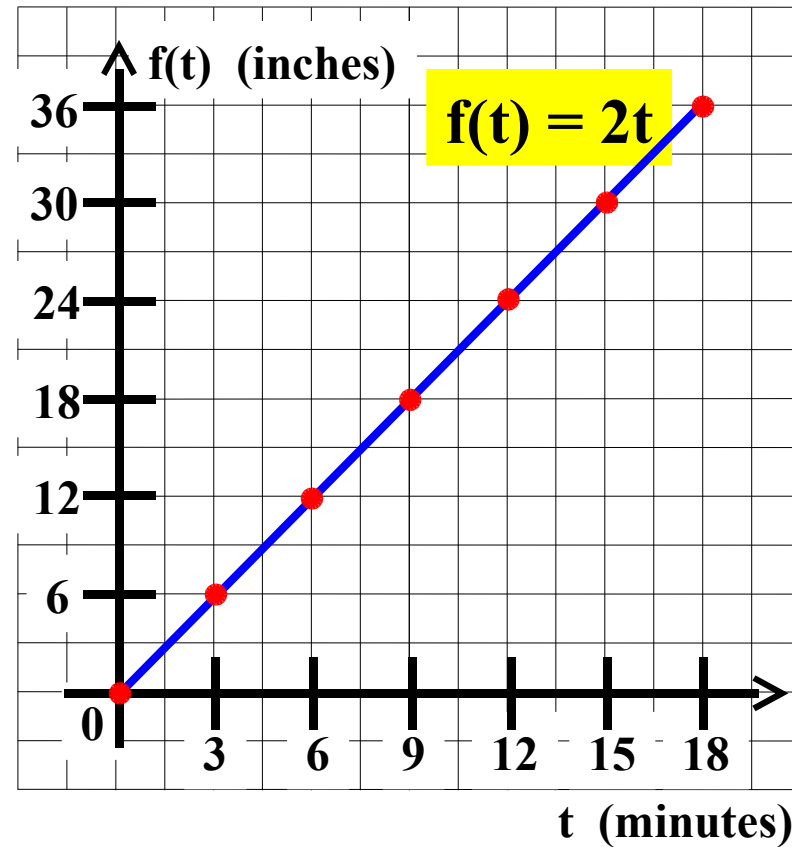
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$$f(t) = 30 \longrightarrow t =$$

$$2t = 30$$



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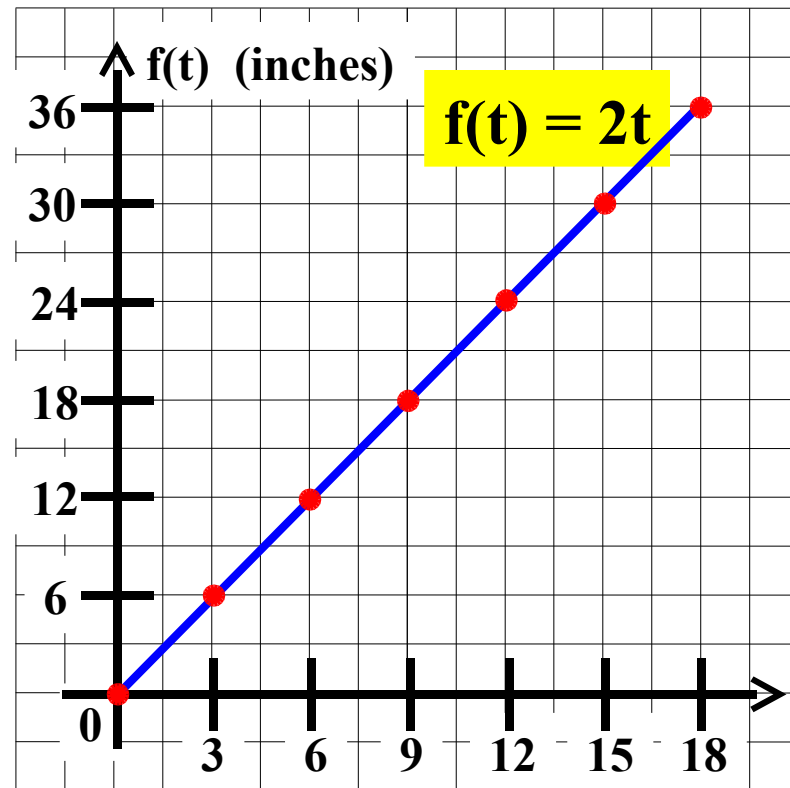
range

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8. If $f(t) = 30$, then find the value of t .

$$f(t) = 30 \longrightarrow t = 15$$

$$2t = 30$$



t (minutes)

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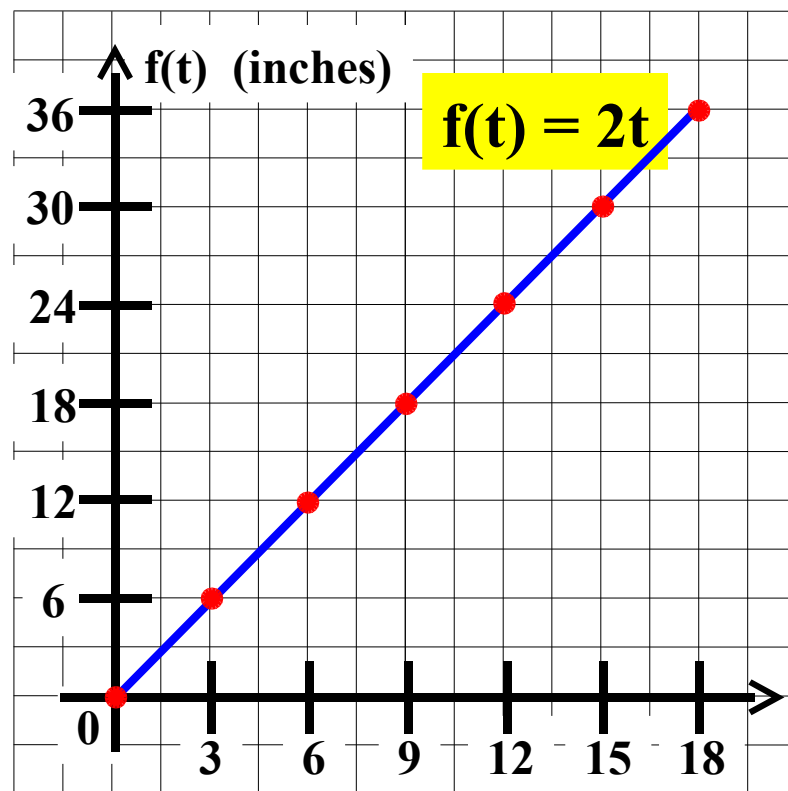
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$$f(t) = 30 \longrightarrow t = 15$$



t (minutes)

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0	0
3	6
6	12
9	18
12	24
15	30
18	36

domain

$[0, 18]$

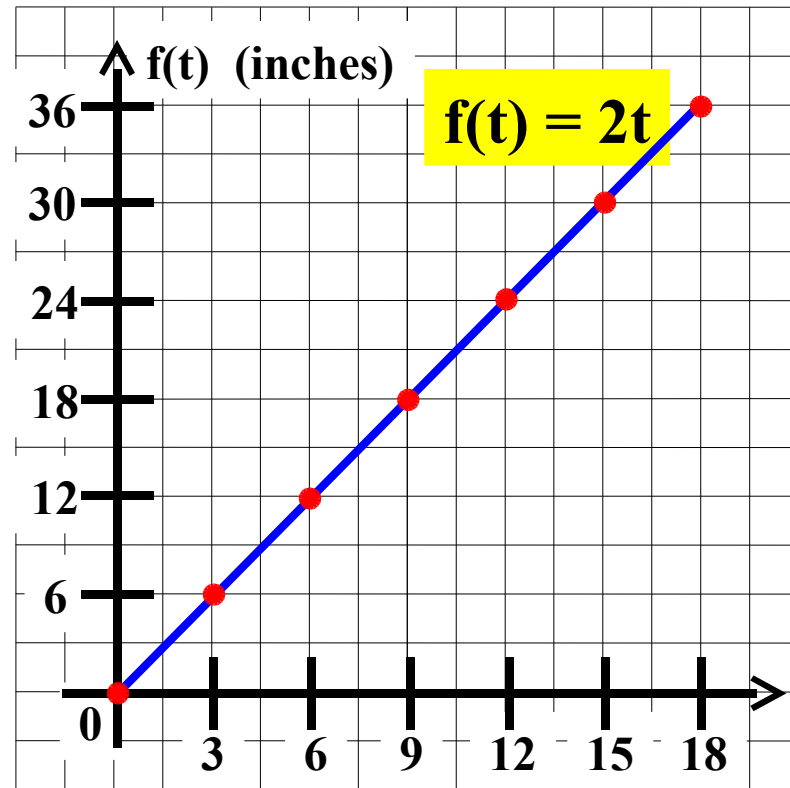
range

$[0, 36]$

8. If $f(t) = 30$, then find the value of t .

What does this value of t represent in terms of the problem?

$f(t) = 30 \rightarrow t = 15$



t (minutes)

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $f(t)$ represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank? **18 minutes**

3. Graph function f .

2. Make a table giving t and $f(t)$ every 3 minutes from $t = 0$ until the tank is full.

t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36

domain

[0, 18]

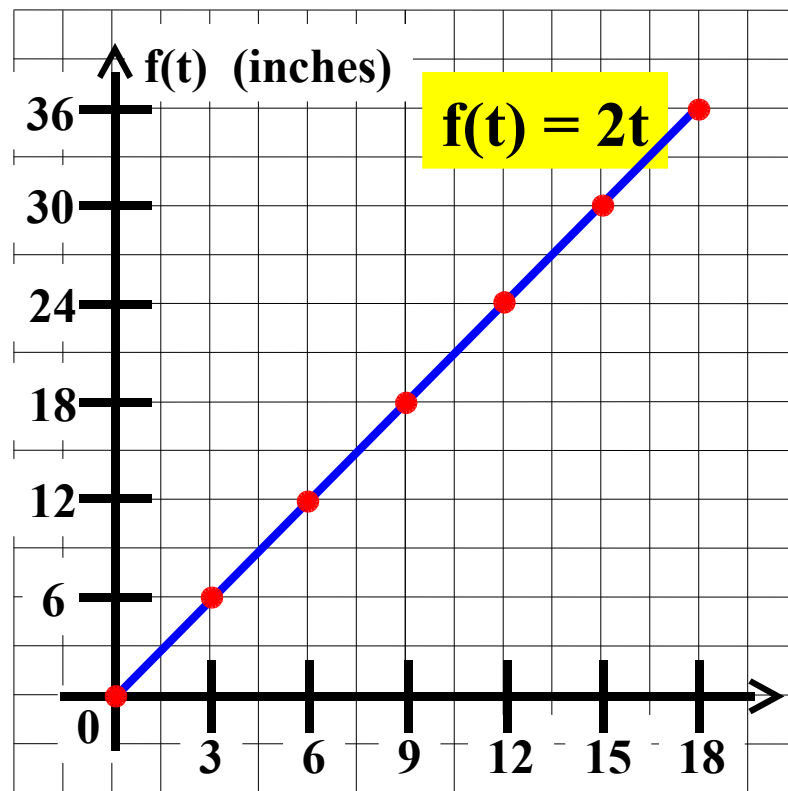
range

[0, 36]

8. If $f(t) = 30$, then find the value of t .

What does this value of t represent in terms of the problem?

$$f(t) = 30 \longrightarrow t = 15$$



This represents

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 6 feet long, 4 feet wide, and 3 feet deep. The tank is empty initially and water is pumped into the tank at 4 cubic feet per minute until the tank is full.

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t	$f(t)$
0	0
3	6
6	12
9	18
12	24
15	30
18	36

domain

$[0, 18]$

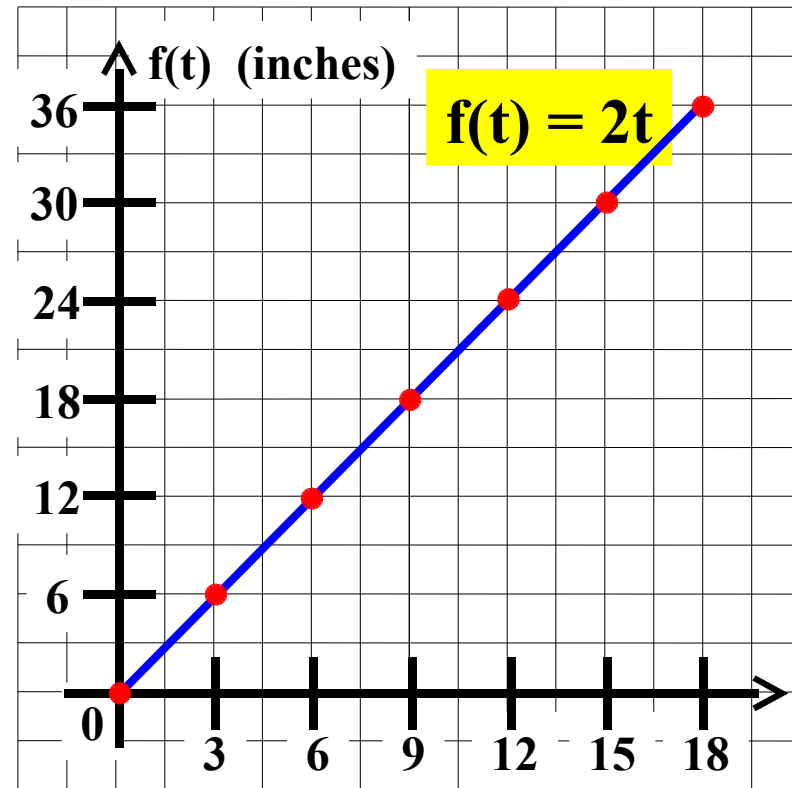
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This represents the time

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domain

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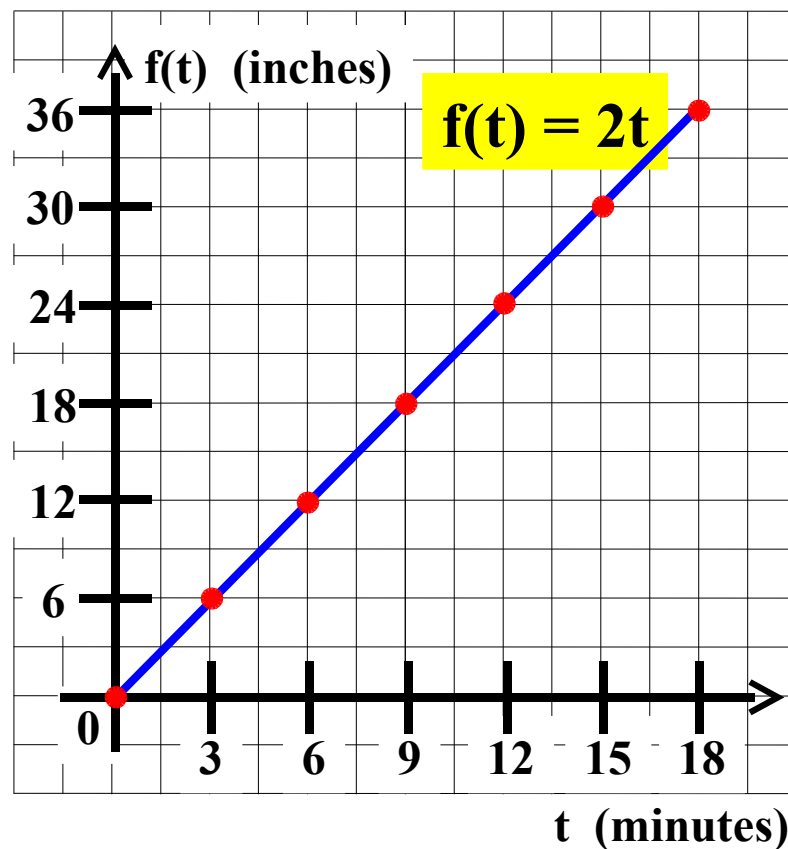
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This represents the time it took for the water

Algebra II Class Worksheet #5 Unit 3

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6	12
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15	30
18	36

domain

$[0, 18]$

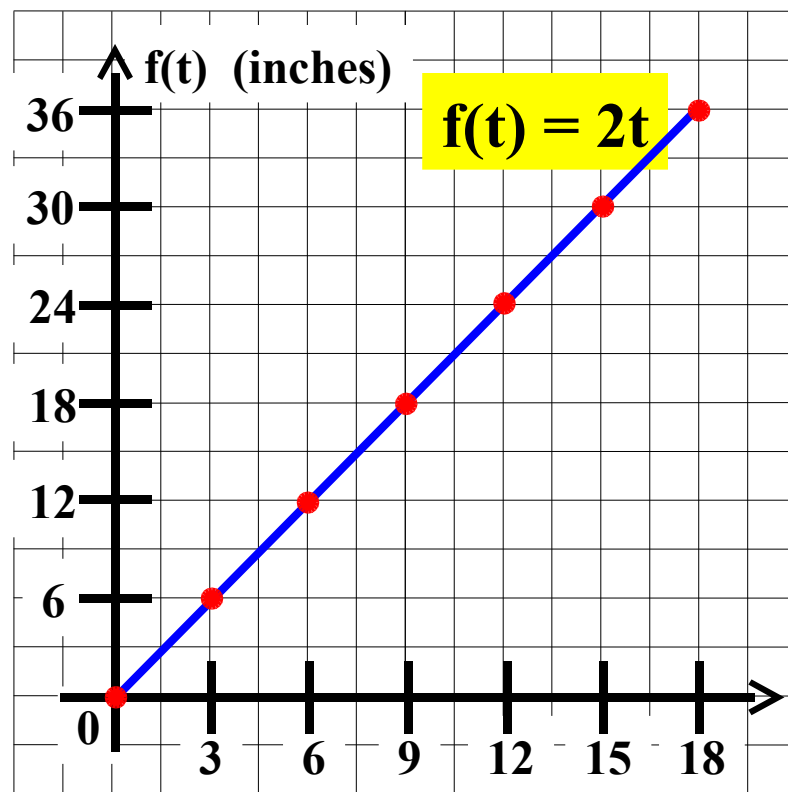
range

$[0, 36]$

8. If $f(t) = 30$, then find the value of t .

What does this value of t represent in terms of the problem?

$$f(t) = 30 \longrightarrow t = 15$$



t (minutes)

This represents the time it took for the water to be 30 inches deep.

Algebra II Class Worksheet #5 Unit 3

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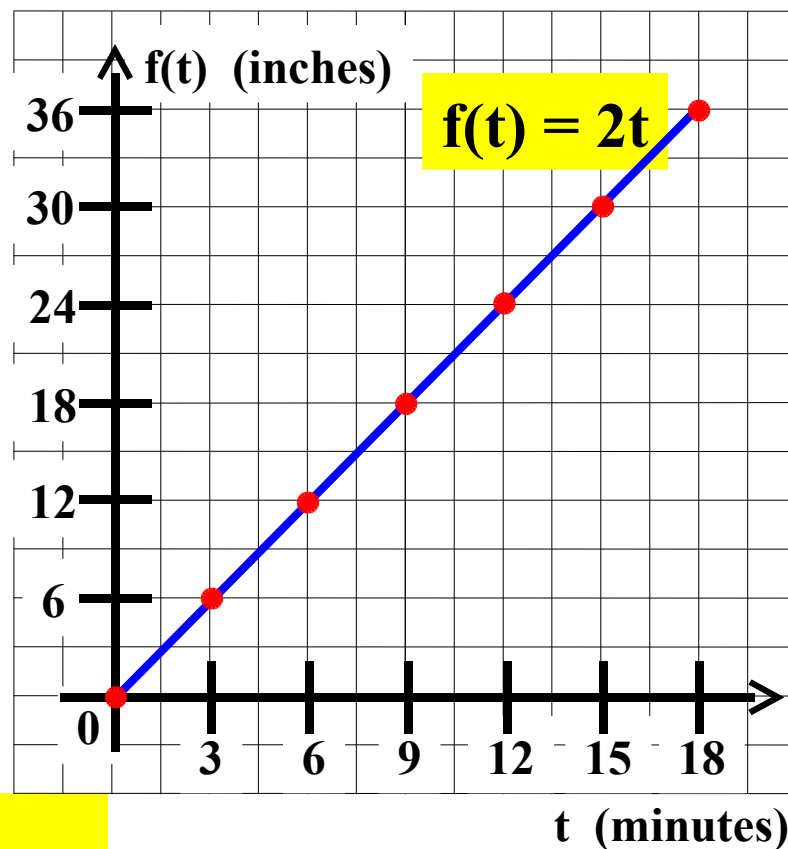
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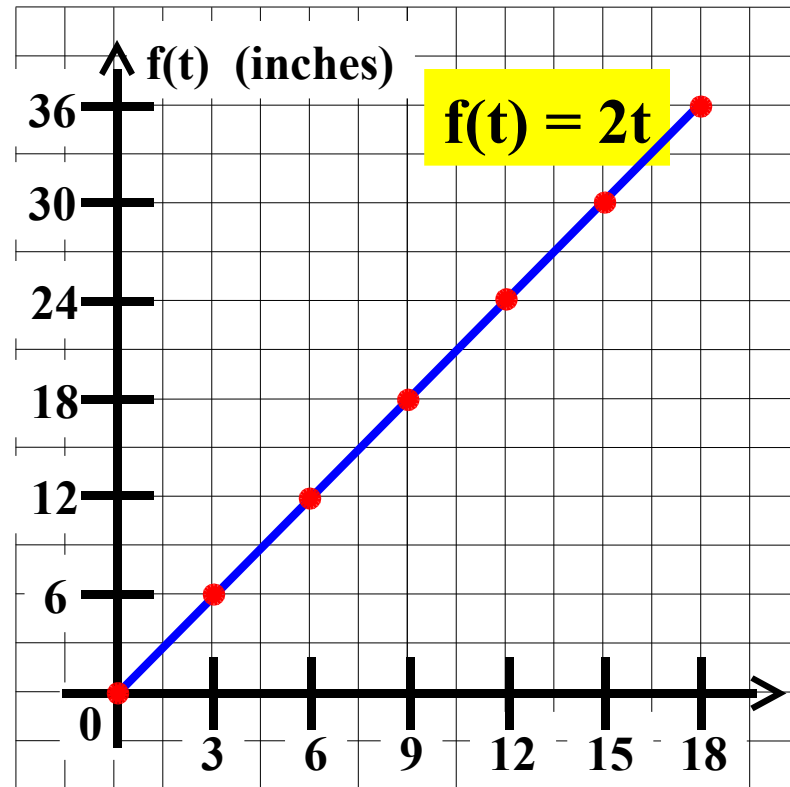
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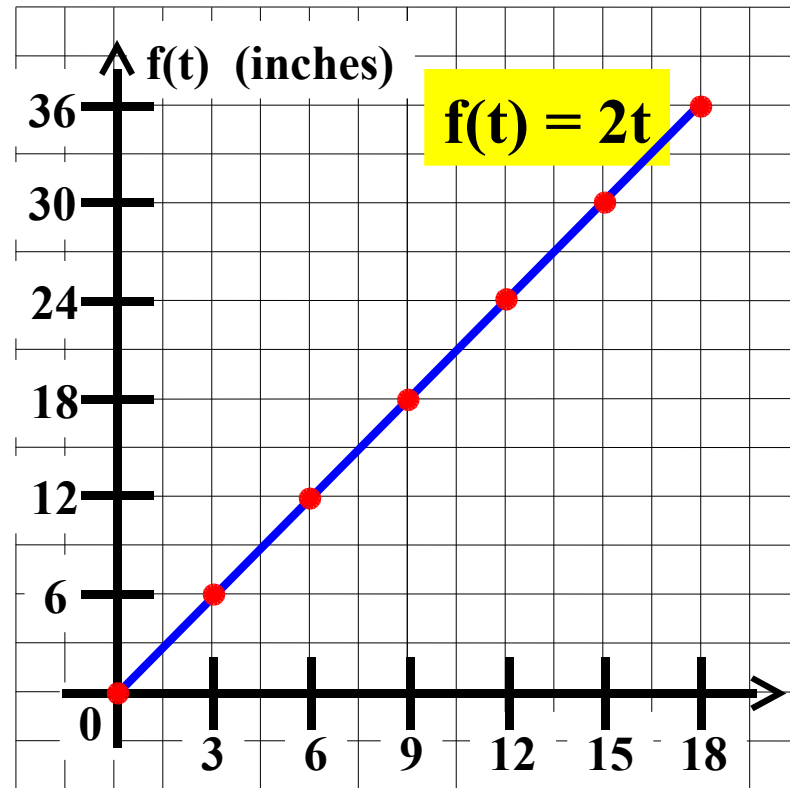
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Let t represent the time that water has been draining out of the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

9. How long will it take to empty the tank? _____

Algebra II Class Worksheet #5 Unit 3

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9. How long will it take to empty the tank? _____

$$V = LWH$$

Algebra II Class Worksheet #5 Unit 3

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$$V =$$

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$$V = LWH$$

$$V = (10 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

Algebra II Class Worksheet #5 Unit 3

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$$V =$$

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Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

9. How long will it take to empty the tank? _____

$$V = LWH$$

$$V = (10 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 120$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 10 feet long, 4 feet wide, and 3 feet deep. The tank is full initially and water is drained out of the tank at 6 cubic feet per minute until the tank is empty.

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$$V = LWH$$

$$V = (10 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

Algebra II Class Worksheet #5 Unit 3

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9. How long will it take to empty the tank? _____

$$V = LWH$$

$$V = (10 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

$$\text{Time} =$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 10 feet long, 4 feet wide, and 3 feet deep. The tank is full initially and water is drained out of the tank at 6 cubic feet per minute until the tank is empty.

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$$V = 120 \text{ cu. ft.}$$

$$\text{Time} = 120 \text{ cu. ft.}$$

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$$V = LWH$$

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$$V = 120 \text{ cu. ft.}$$

$$\text{Time} = 120 \text{ cu. ft.} \div$$

Algebra II Class Worksheet #5 Unit 3

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$$V = LWH$$

$$V = (10 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

$$\text{Time} = 120 \text{ cu. ft.} \div 6 \text{ cu. ft. per min.}$$

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$$\text{Time} =$$

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$$V = LWH$$

$$V = (10 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

$$\text{Time} = 120 \text{ cu. ft.} \div 6 \text{ cu. ft. per min.}$$

$$\text{Time} = 20 \text{ minutes}$$

Algebra II Class Worksheet #5 Unit 3

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9. How long will it take to empty the tank? 20 minutes

$$V = LWH$$

$$V = (10 \text{ ft.})(4 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

$$\text{Time} = 120 \text{ cu. ft.} \div 6 \text{ cu. ft. per min.}$$

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9. How long will it take to empty the tank? 20 minutes

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9. How long will it take to empty the tank? 20 minutes

10. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is empty.

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t	$F(t)$
-----	--------

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t	$F(t)$
0	
5	
10	
15	
20	

Algebra II Class Worksheet #5 Unit 3


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t	$F(t)$
 0	
5	
10	
15	
20	

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t	$F(t)$
0	
5	
10	
15	
20	

When $t = 0$, the tank is full.

Algebra II Class Worksheet #5 Unit 3

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every 5 minutes from $t = 0$ until

the tank is empty.

t	$F(t)$
0	
5	
10	
15	
20	

**When $t = 0$, the tank is full.
The water is 36 inches deep.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 10 feet long, 4 feet wide, and 3 feet deep. The tank is full initially and water is drained out of the tank at 6 cubic feet per minute until the tank is empty.

Let t represent the time that water has been draining out of the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

9. How long will it take to empty the tank? 20 minutes

10. Make a table giving t and $F(t)$

every 5 minutes from $t = 0$ until

the tank is empty.

t	$F(t)$
0	36
5	
10	
15	
20	

**When $t = 0$, the tank is full.
The water is 36 inches deep.**

Algebra II Class Worksheet #5 Unit 3

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10. Make a table giving t and $F(t)$

every 5 minutes from $t = 0$ until

the tank is empty.

t	$F(t)$
0	36
5	
10	
15	
20	

When $t = 0$, the tank is full.

The water is 36 inches deep.

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 10 feet long, 4 feet wide, and 3 feet deep. The tank is full initially and water is drained out of the tank at 6 cubic feet per minute until the tank is empty.

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
Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

9. How long will it take to empty the tank? 20 minutes

10. Make a table giving t and $F(t)$

every 5 minutes from $t = 0$ until

the tank is empty.

t	$F(t)$
0	36
5	
10	
15	
 20	

When $t = 0$, the tank is full.

The water is 36 inches deep.

Algebra II Class Worksheet #5 Unit 3


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t	$F(t)$
0	36
5	
10	
15	
 20	

When $t = 0$, the tank is full.

The water is 36 inches deep.

When $t = 20$, the tank is empty.

Algebra II Class Worksheet #5 Unit 3


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10. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is empty.

t	$F(t)$
0	36
5	
10	
15	
 20	

When $t = 0$, the tank is full.

The water is 36 inches deep.

When $t = 20$, the tank is empty.

The water is 0 inches deep.

Algebra II Class Worksheet #5 Unit 3


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10. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is empty.

t	$F(t)$
0	36
5	
10	
15	
 20	0

When $t = 0$, the tank is full.

The water is 36 inches deep.

When $t = 20$, the tank is empty.

The water is 0 inches deep.

Algebra II Class Worksheet #5 Unit 3

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t	$F(t)$
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**The water depth decreases
36 inches.**

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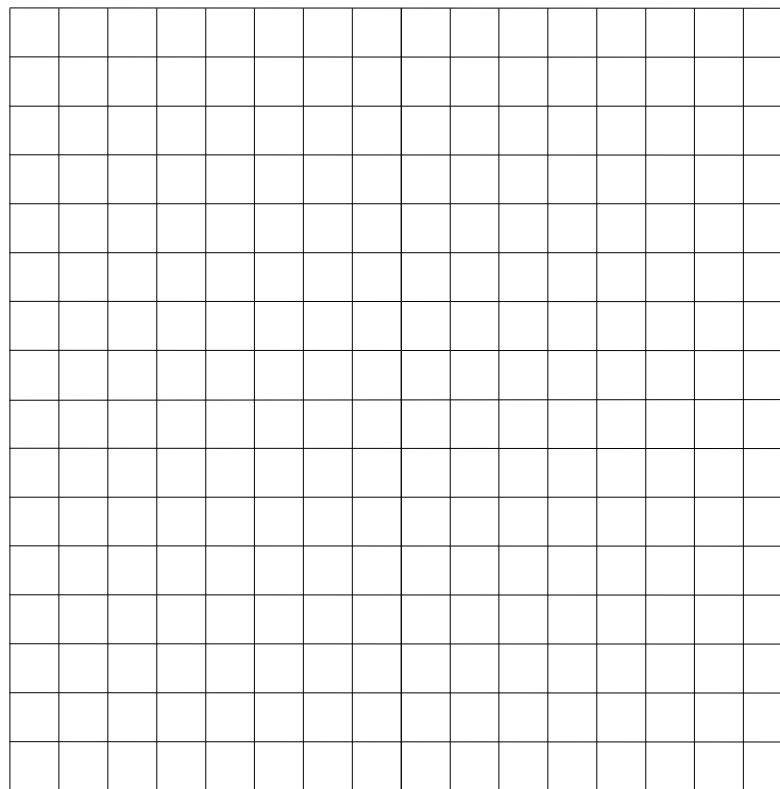
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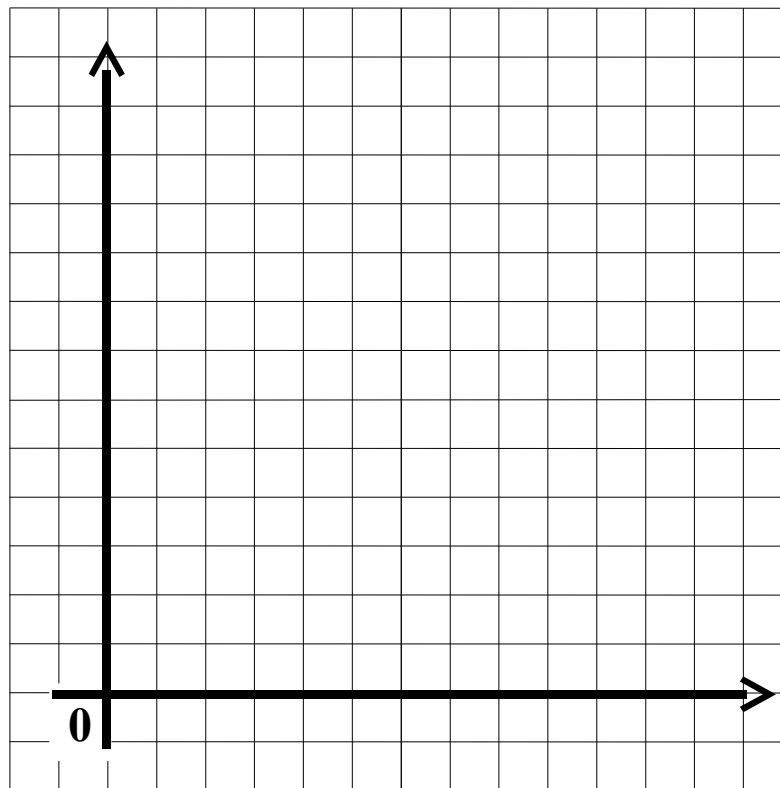
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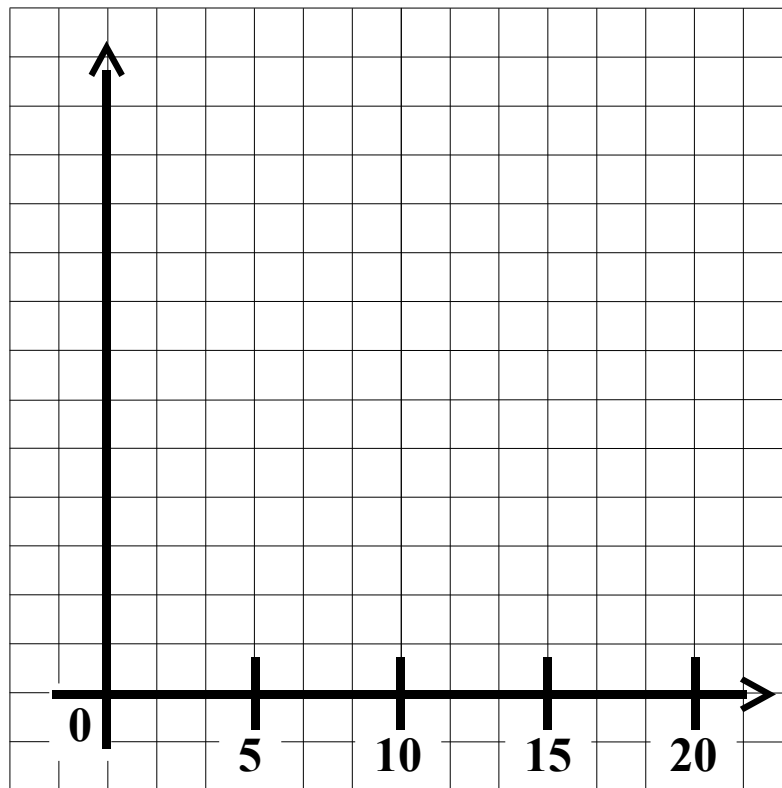
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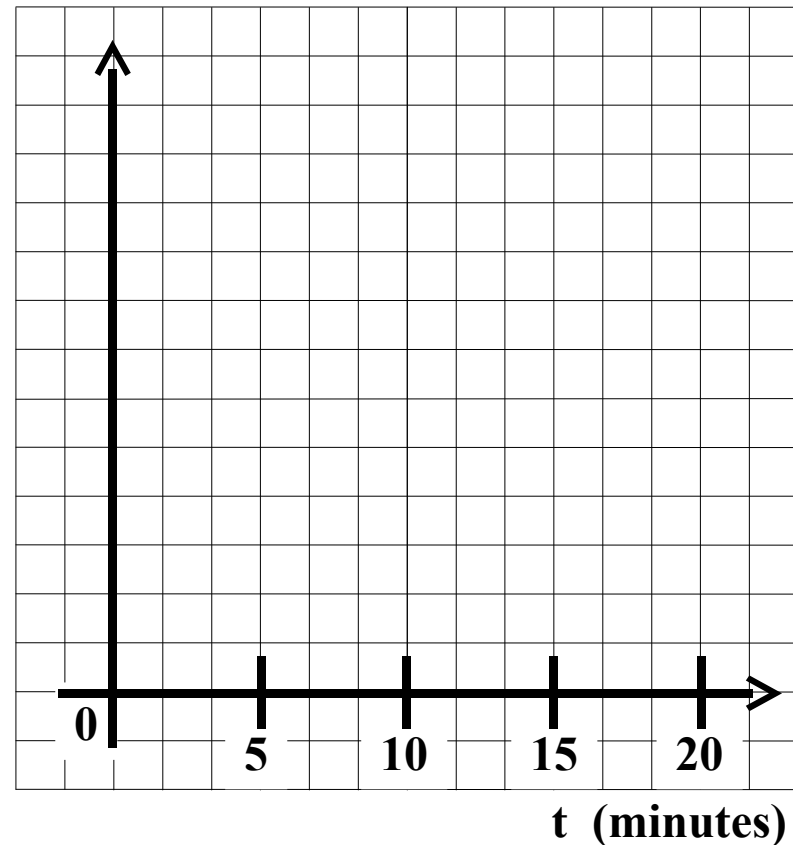
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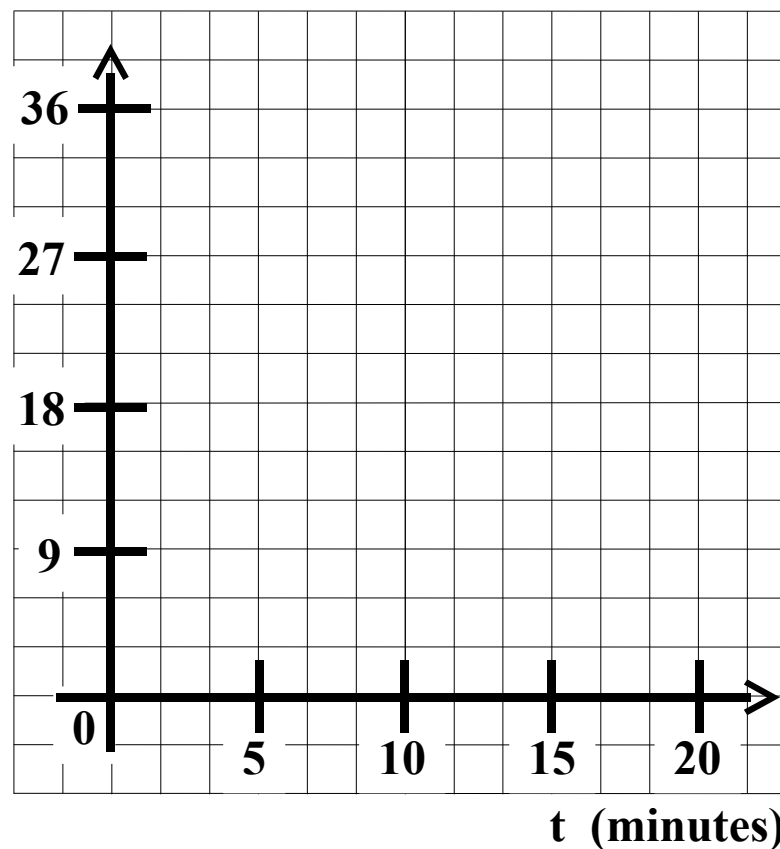
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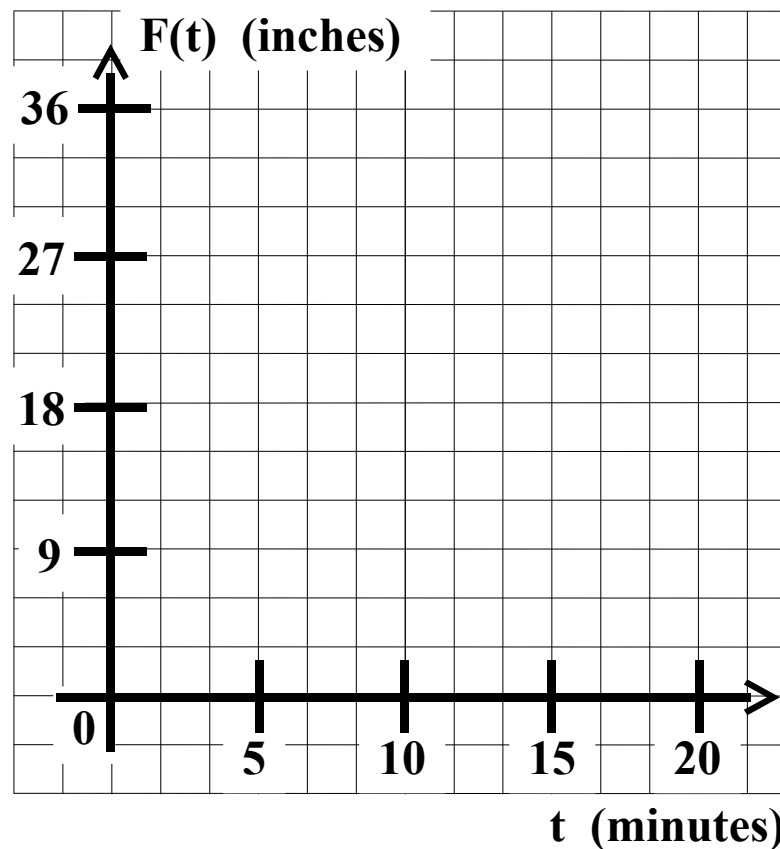
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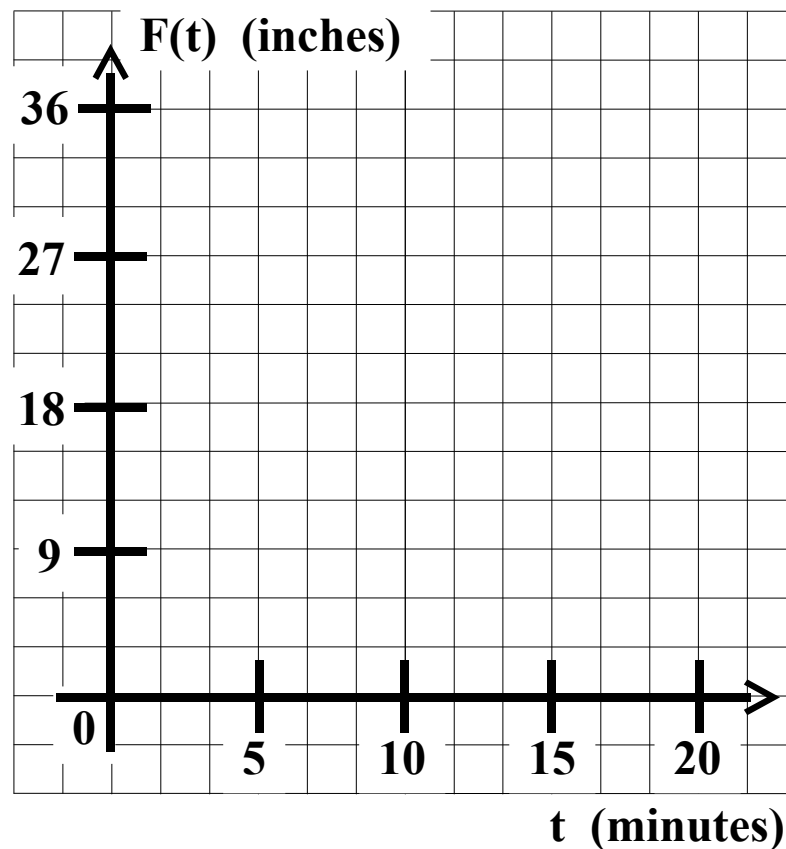
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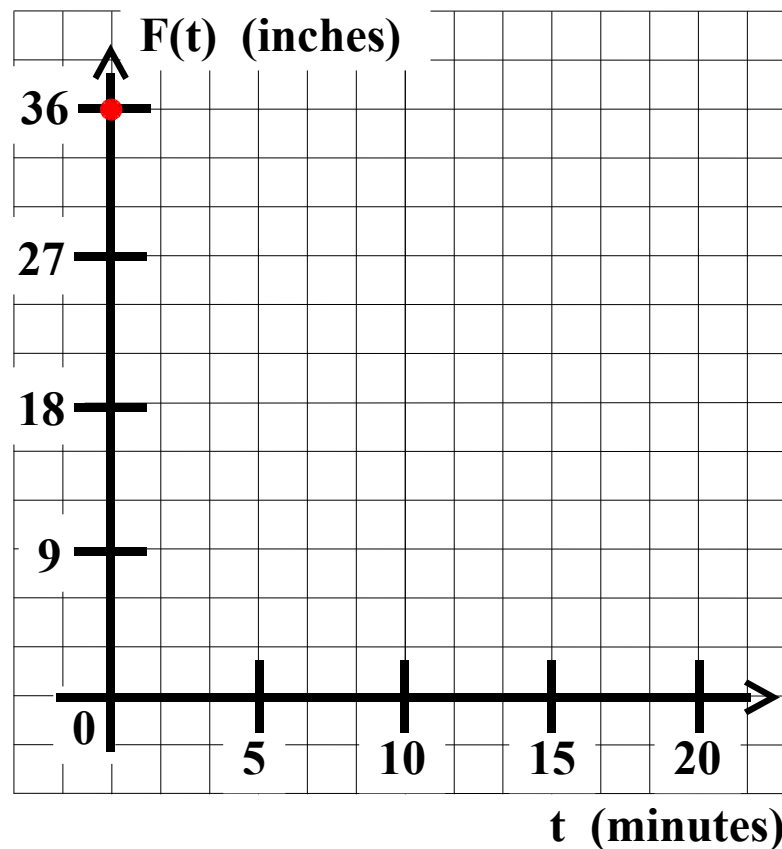
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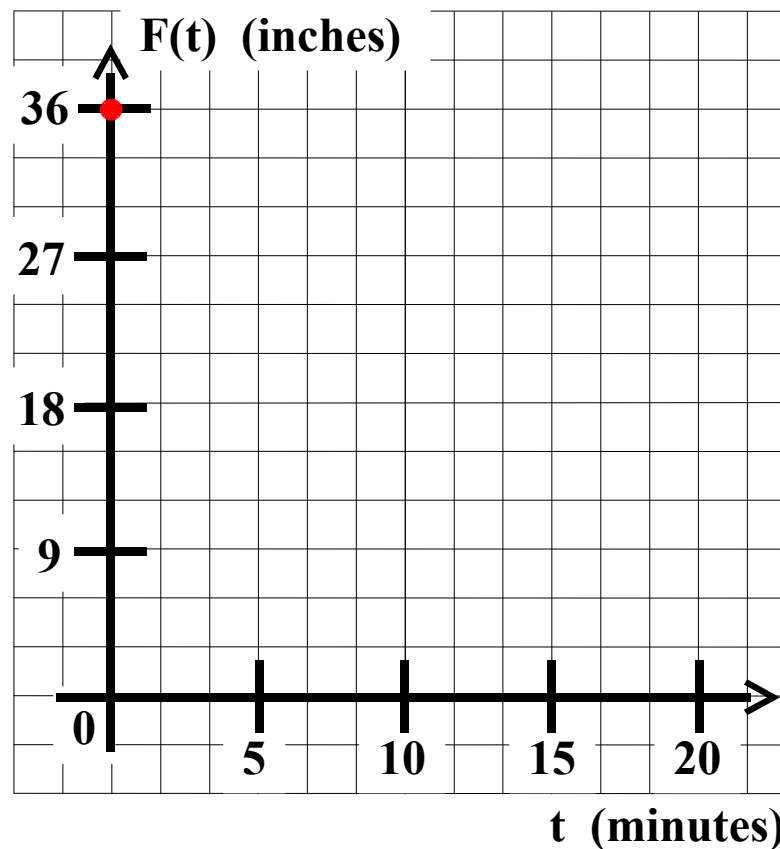
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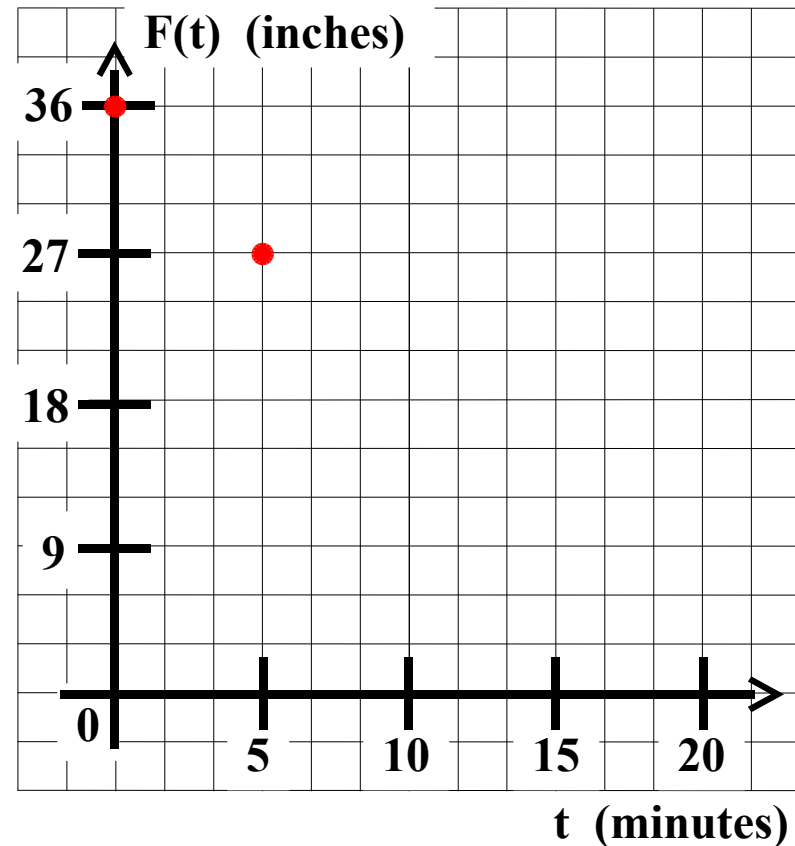
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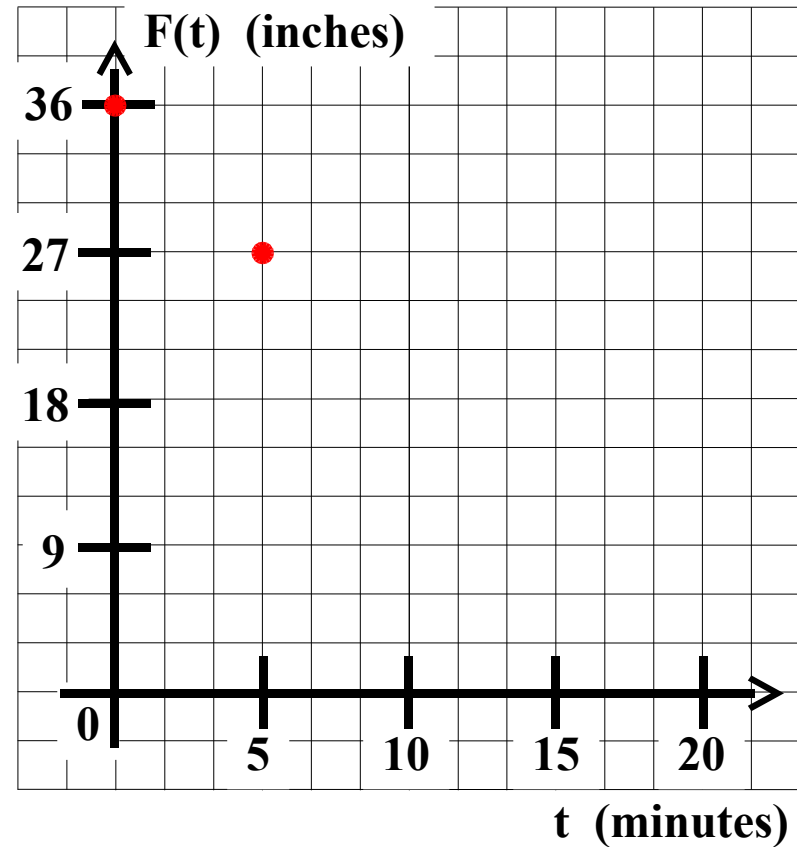
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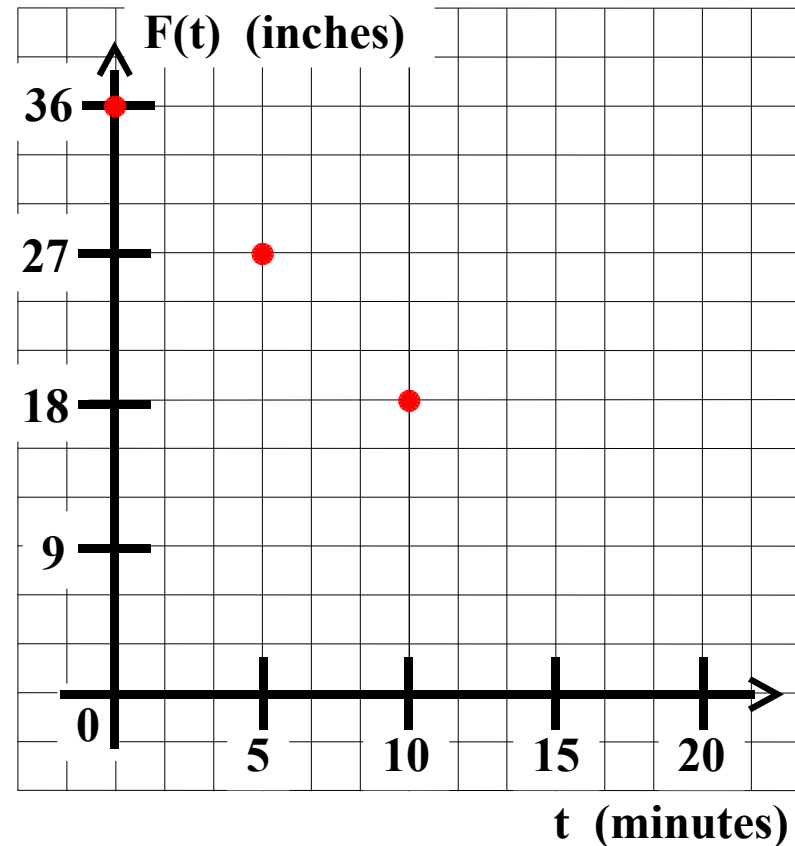
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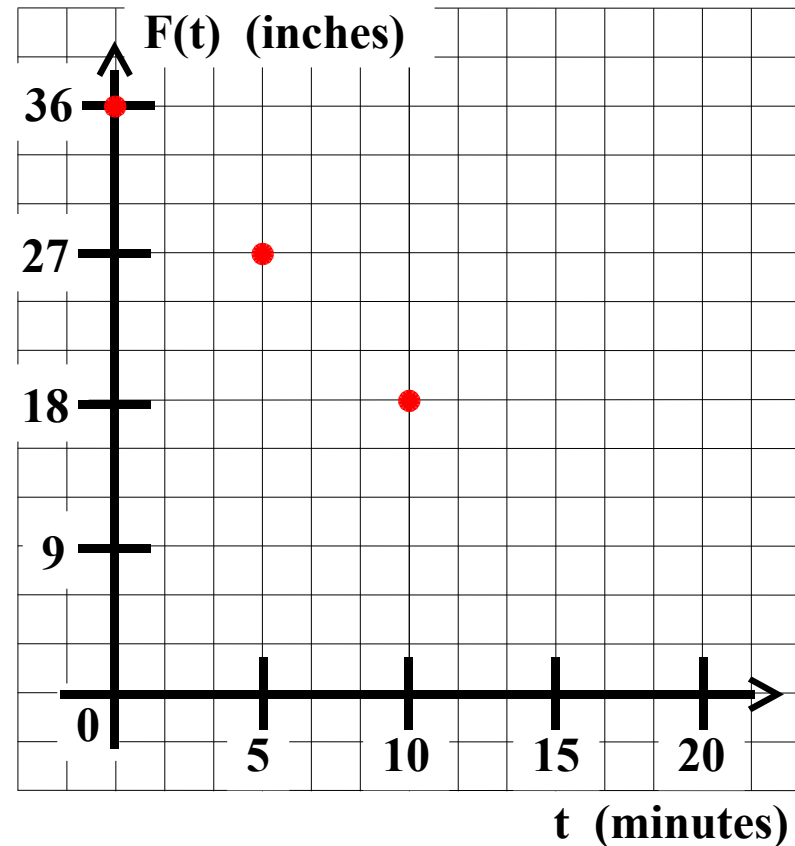
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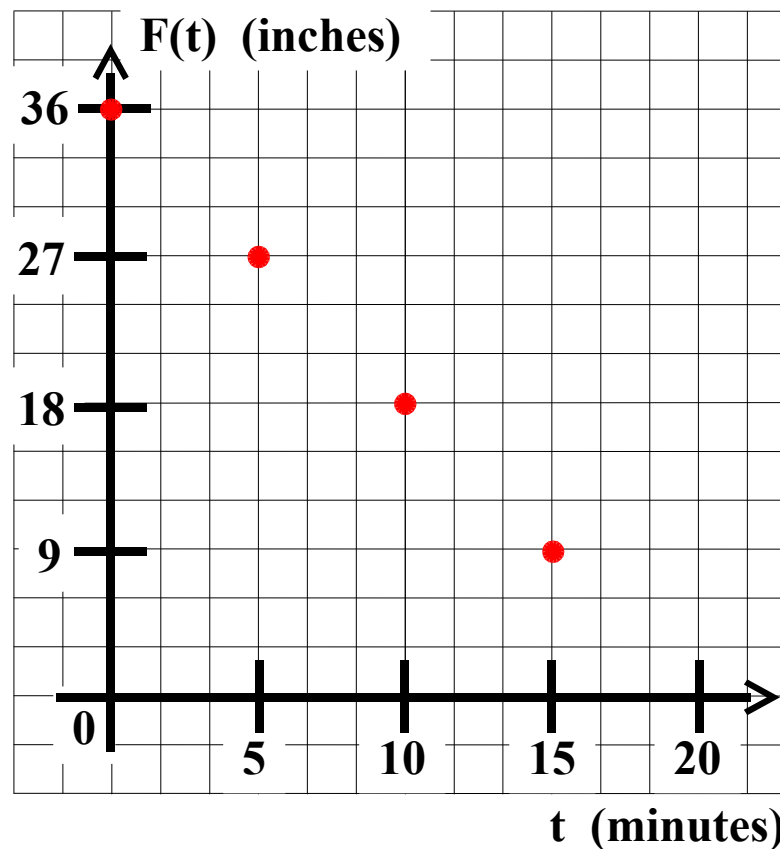
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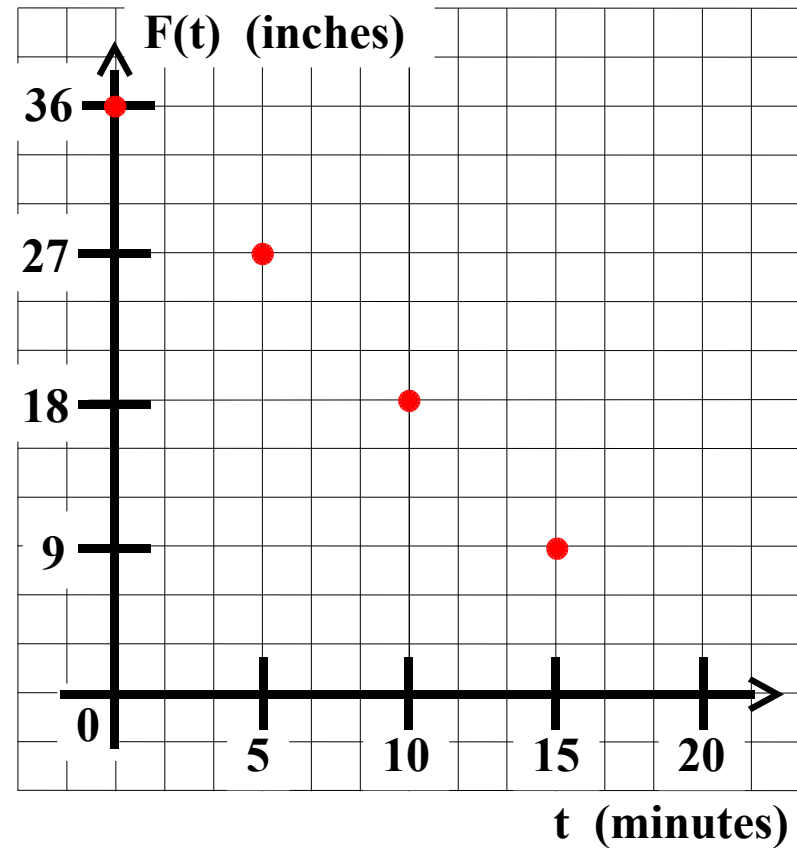
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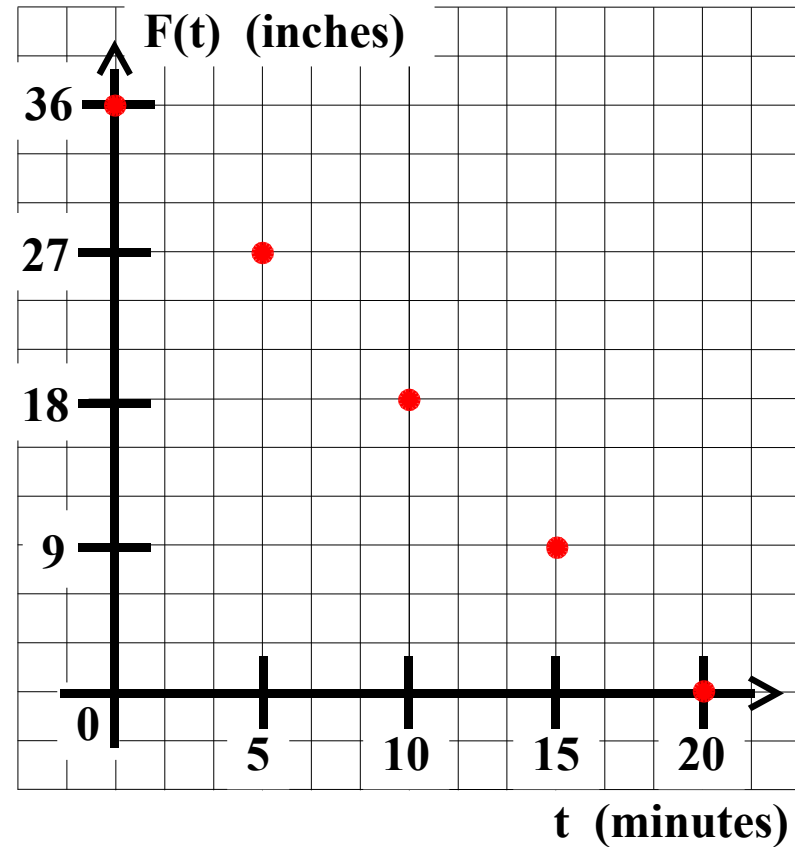
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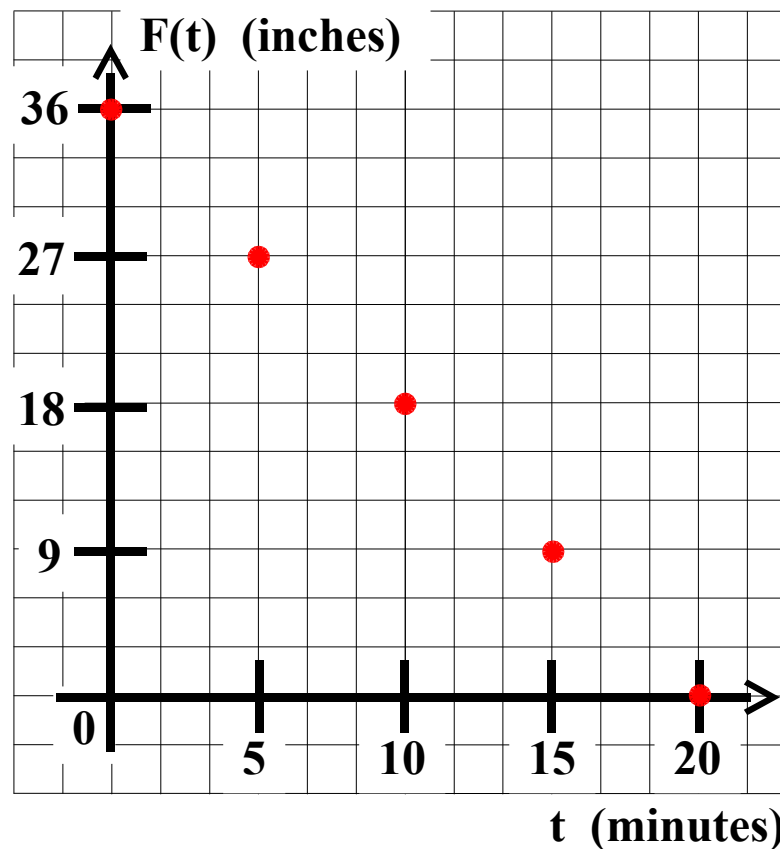
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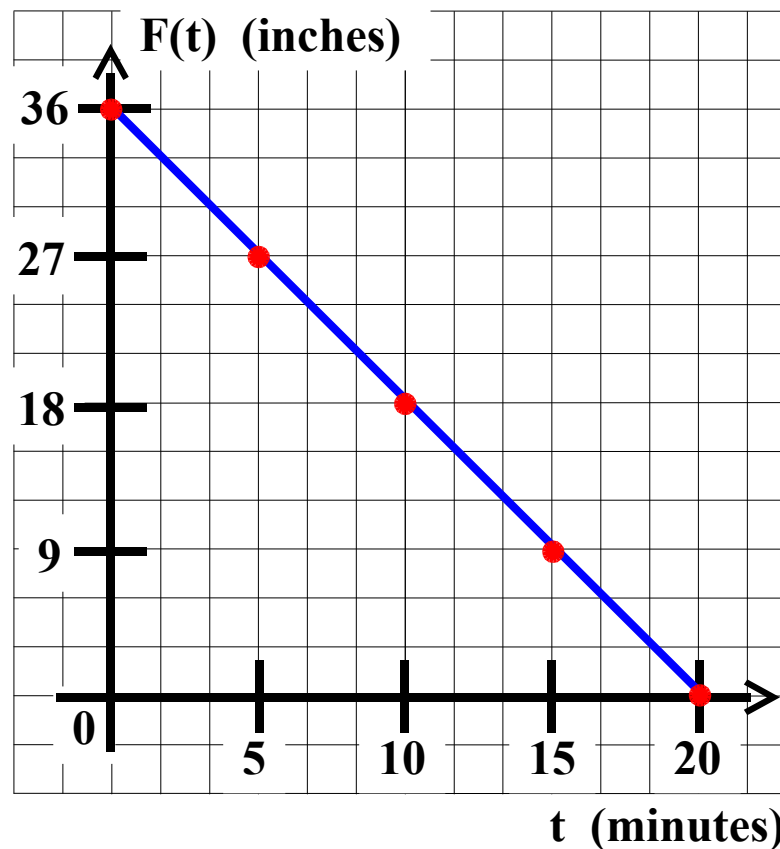
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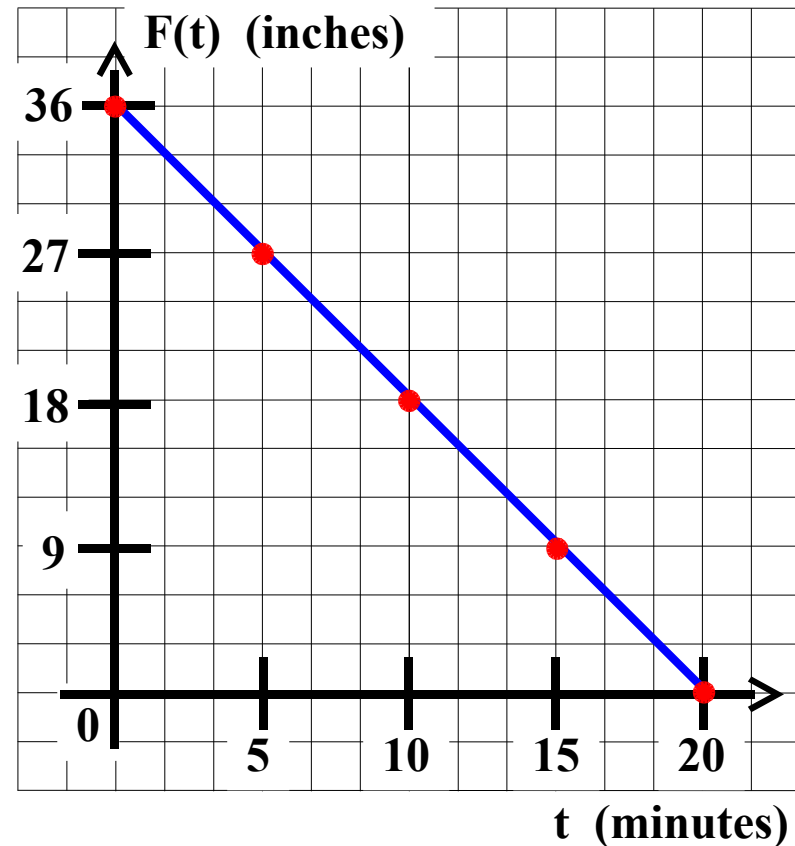
Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

9. How long will it take to empty the tank? **20 minutes**

11. Graph function F .

10. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is empty.

t	$F(t)$
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Algebra II Class Worksheet #5 Unit 3

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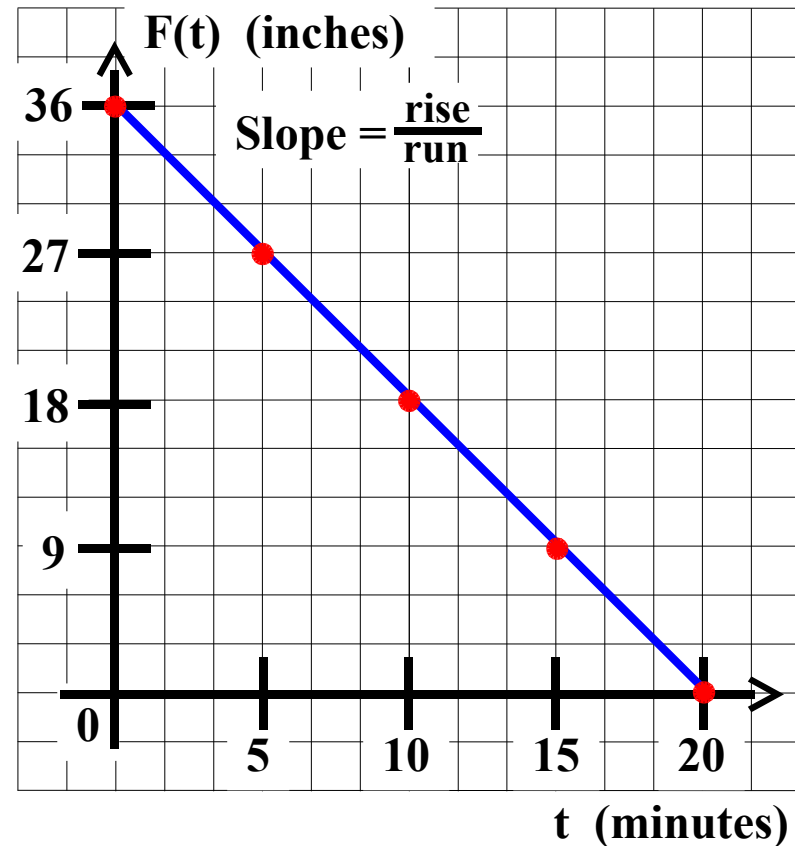
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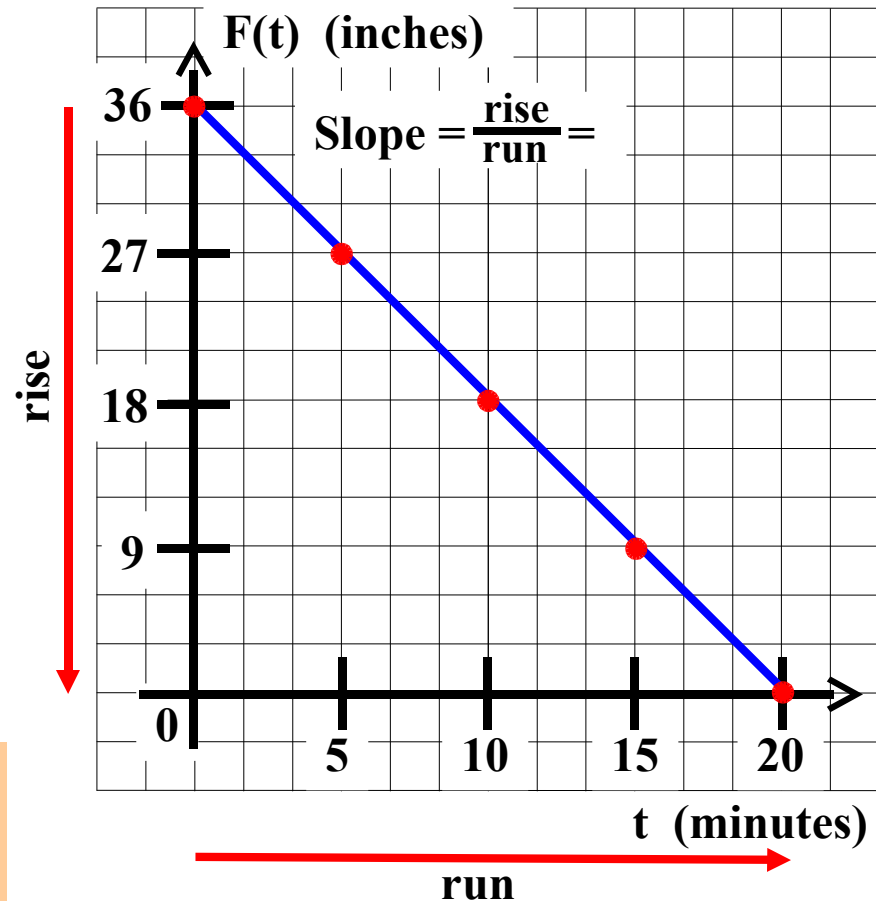
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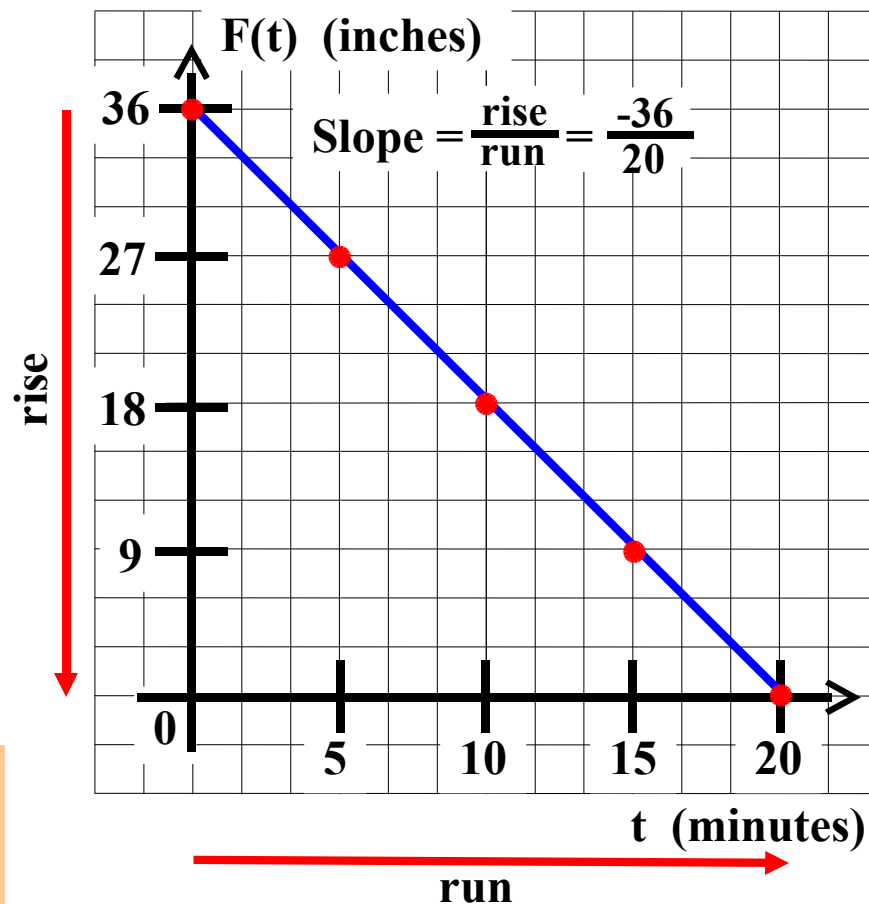
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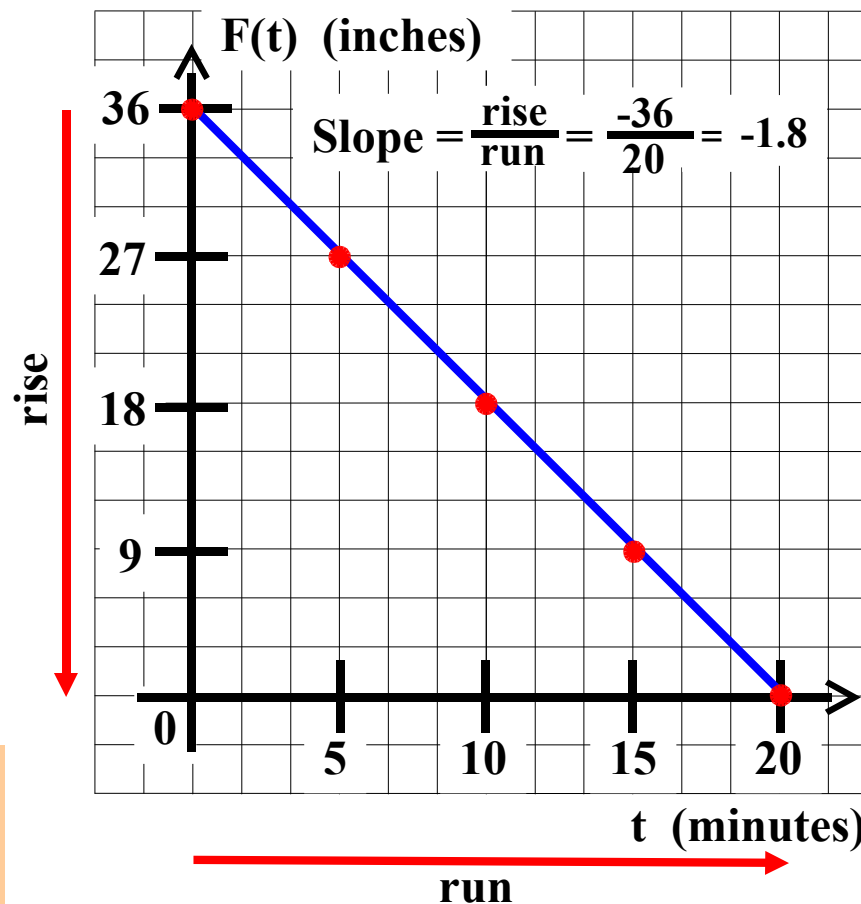
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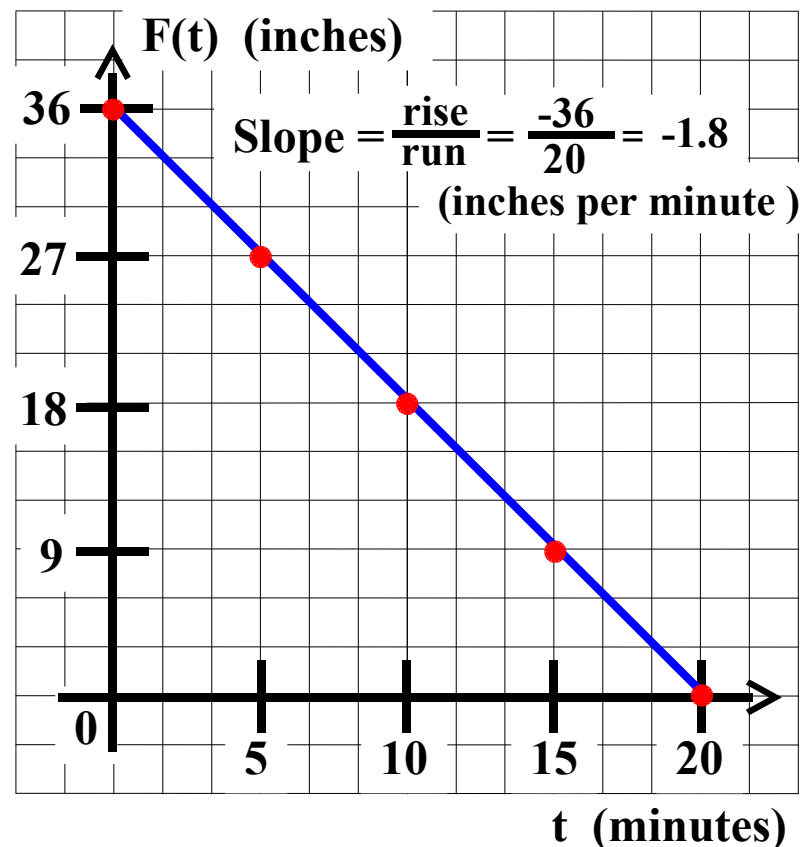
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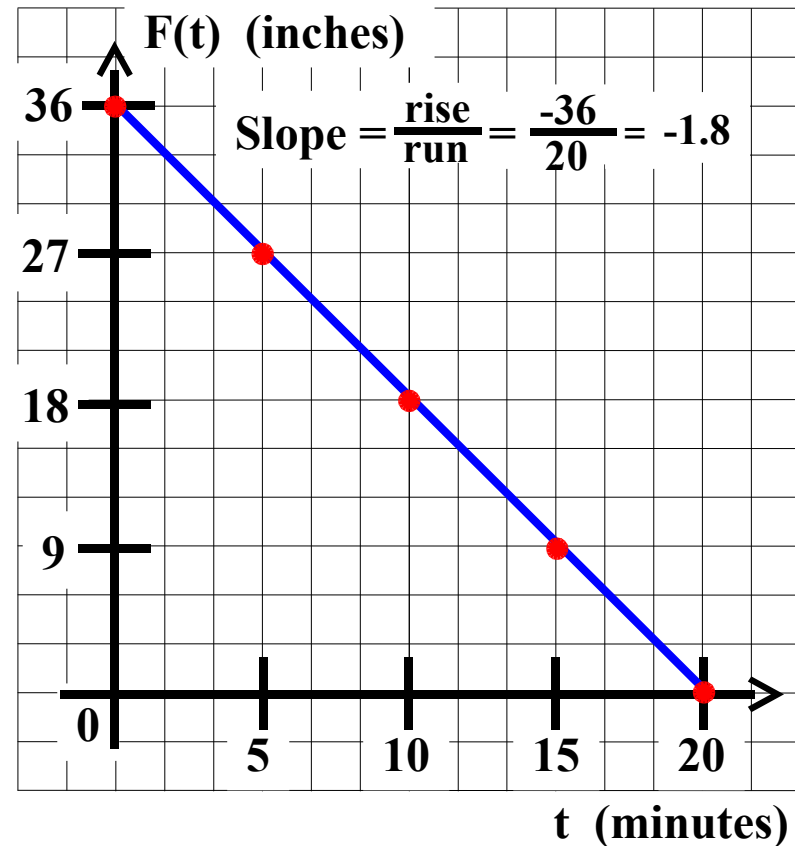
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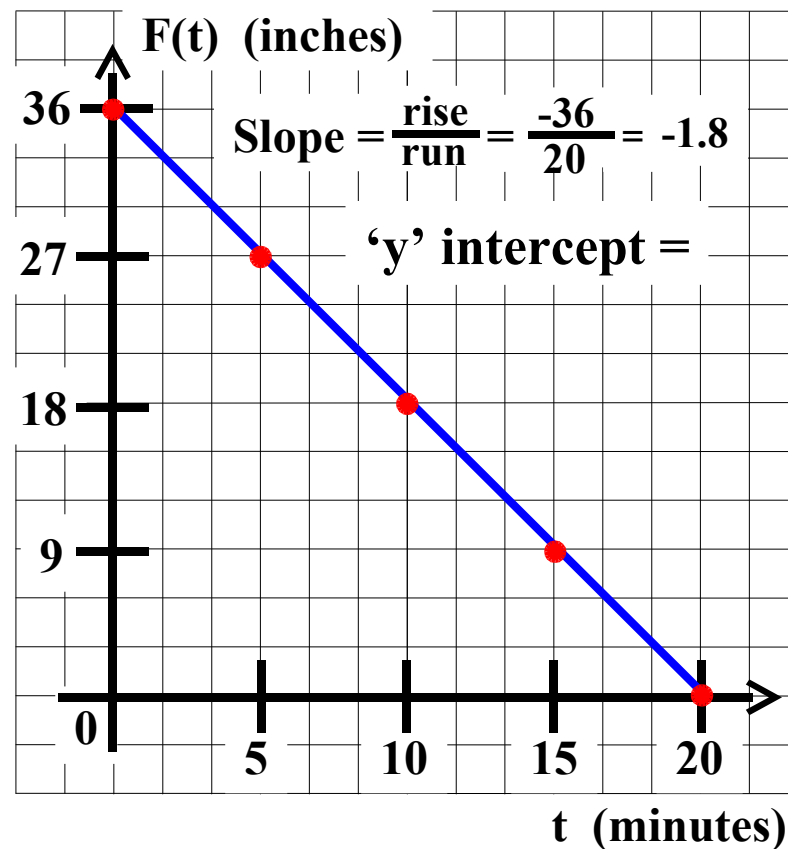
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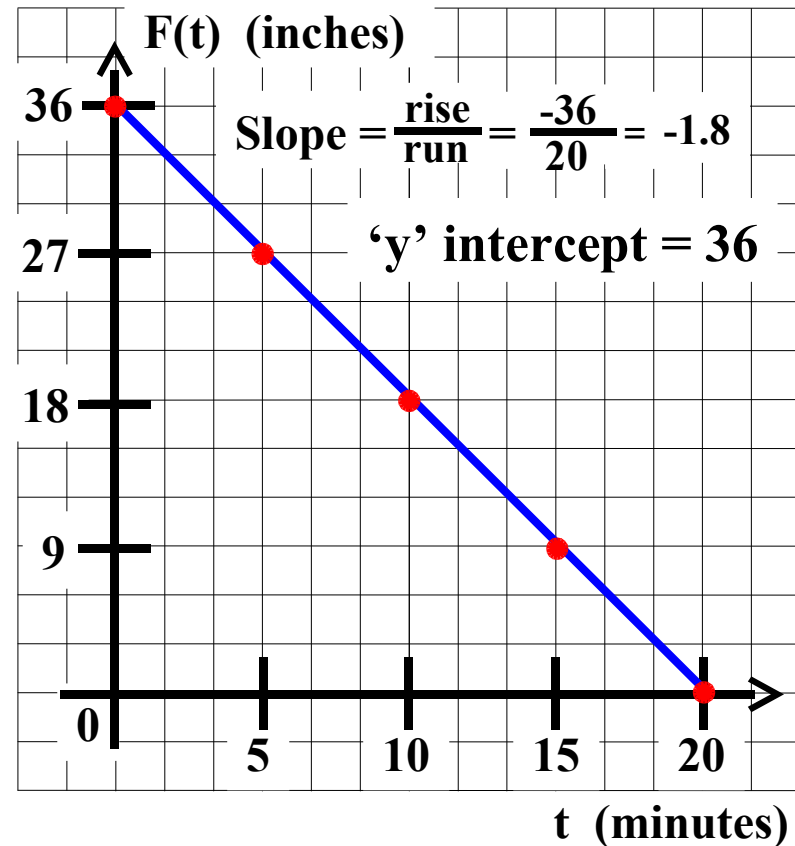
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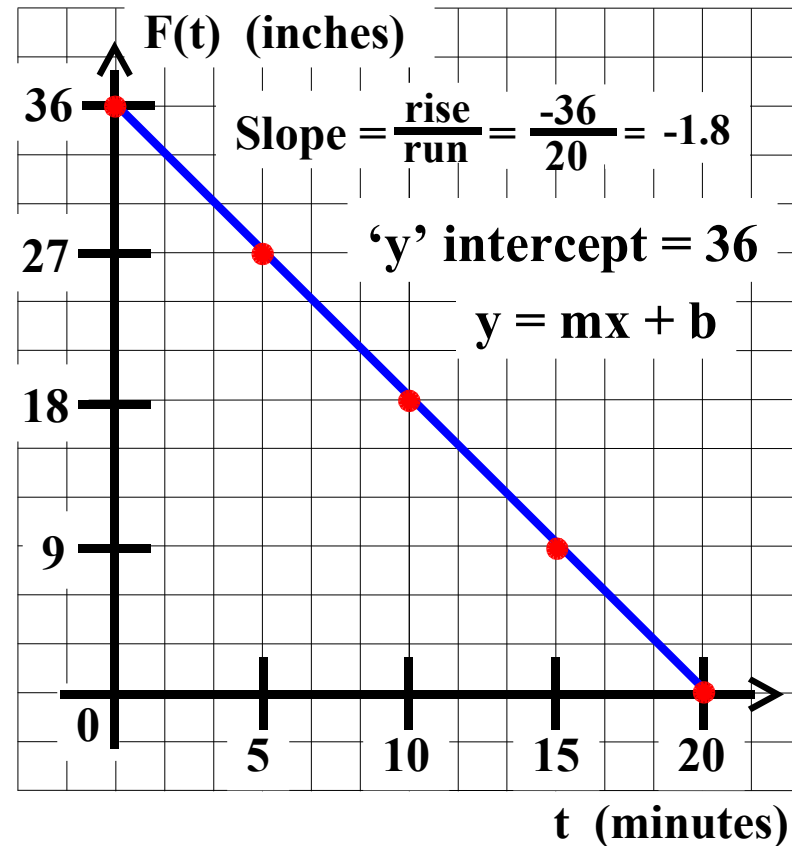
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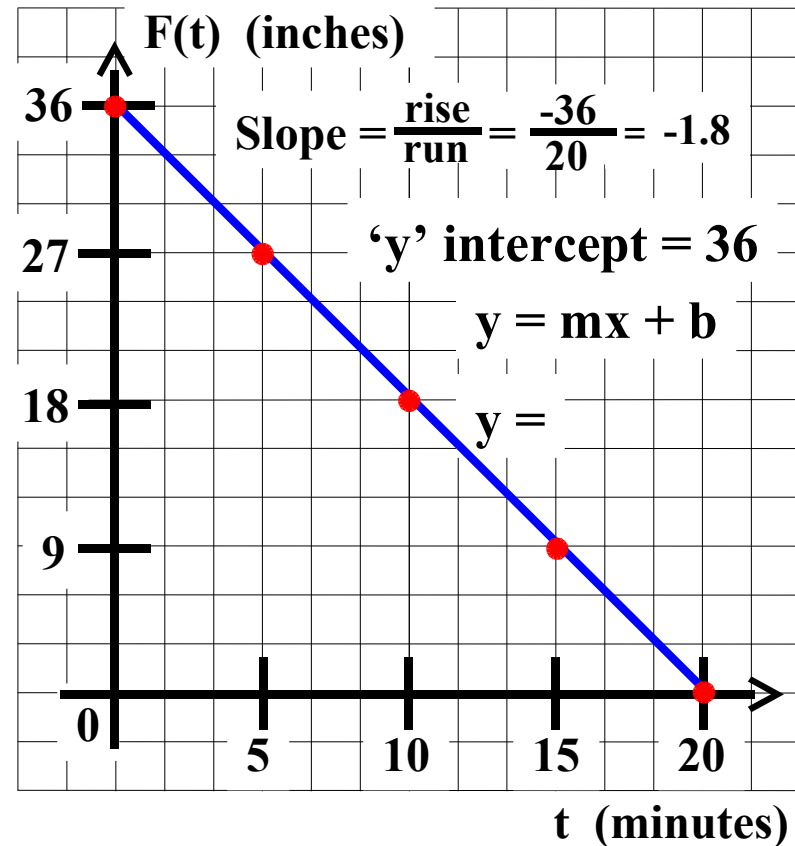
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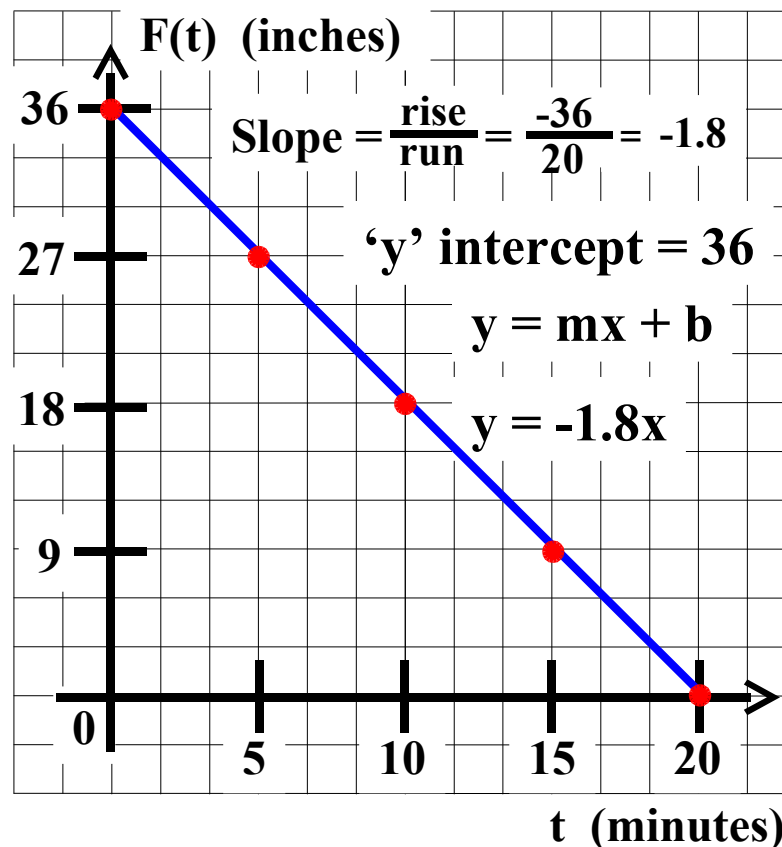
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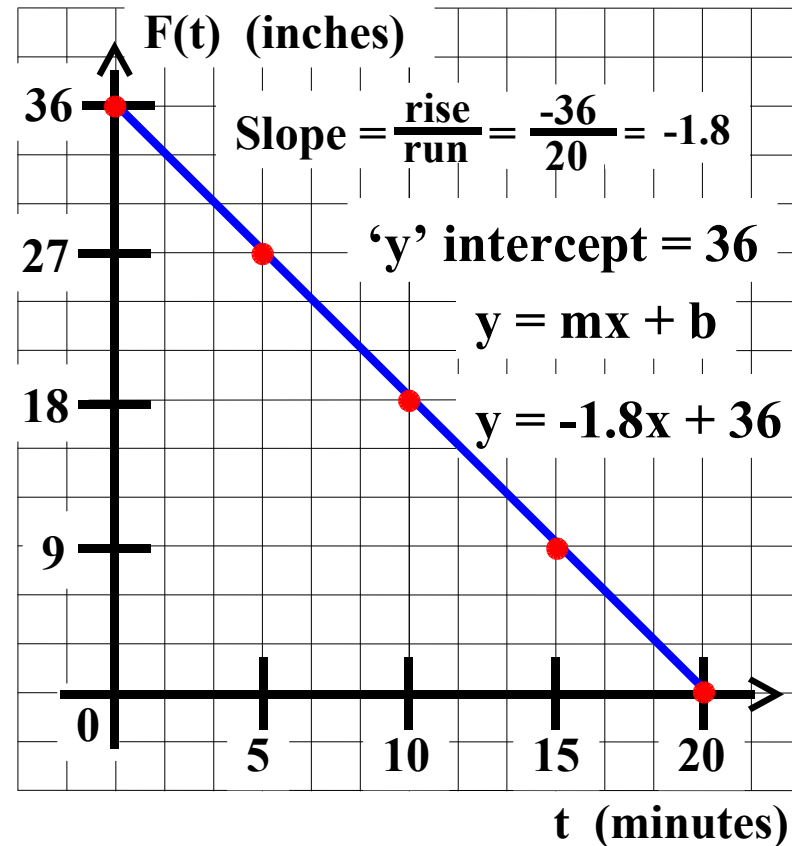
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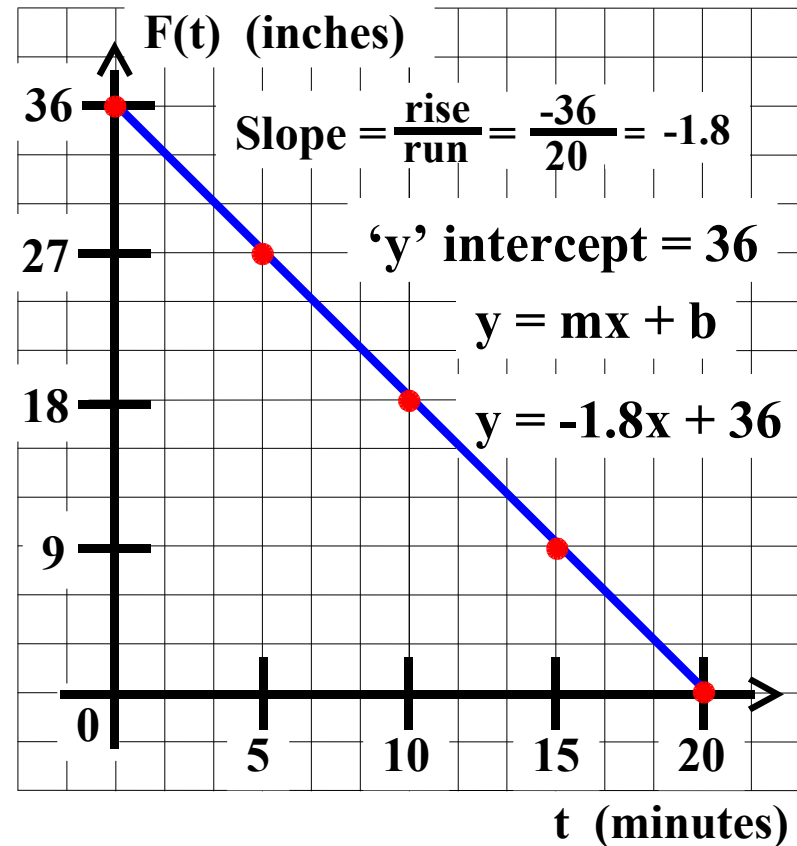
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11. Graph function F .



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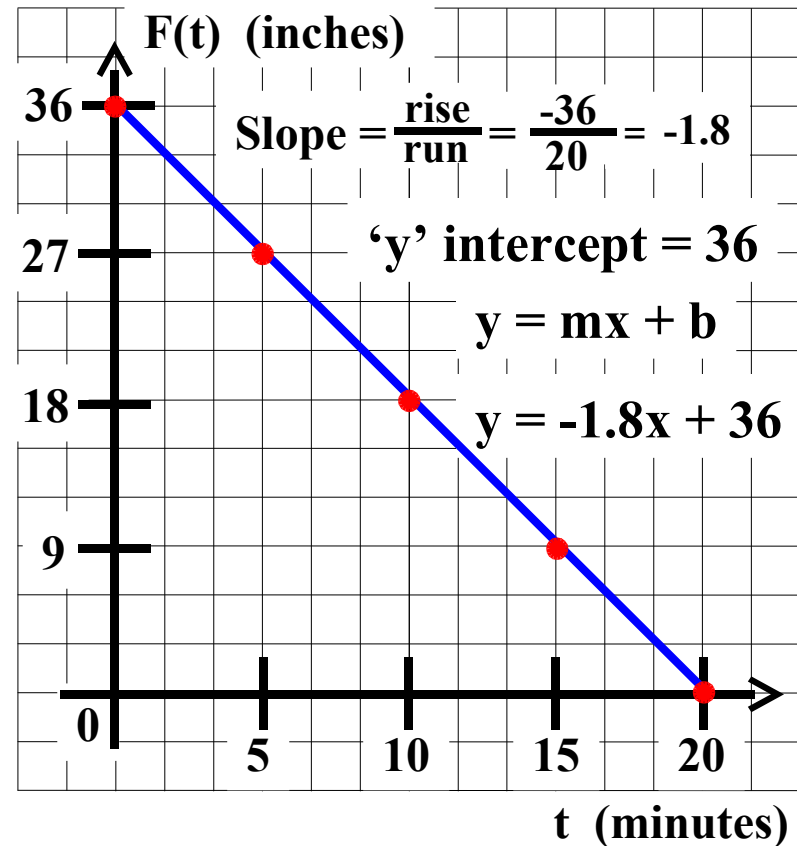
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12. Write an equation giving $F(t)$ in terms of t . **$F(t) = -1.8t$**

11. Graph function F .



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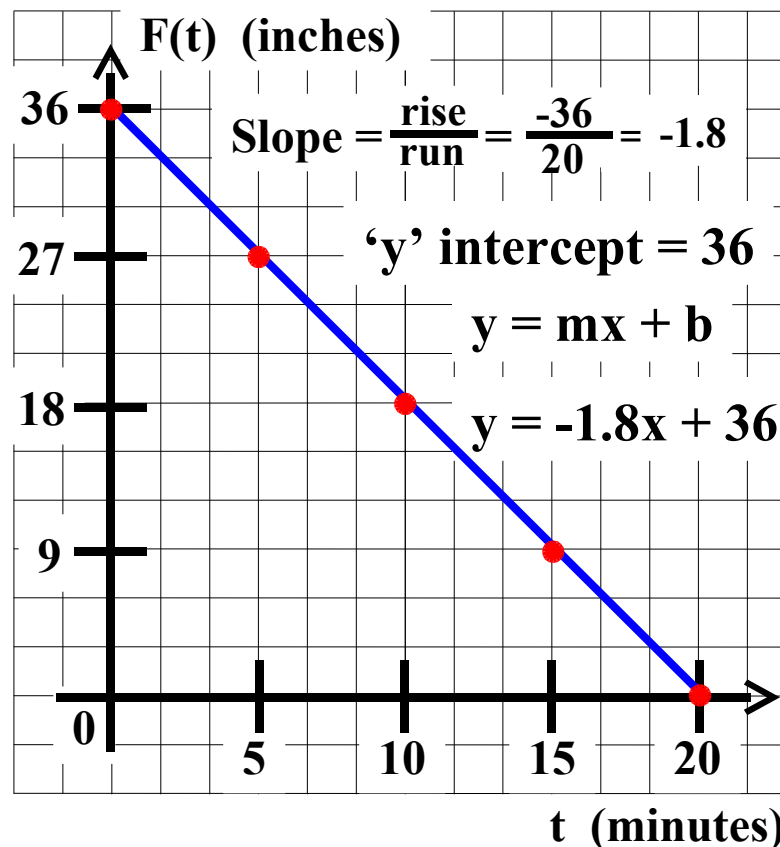
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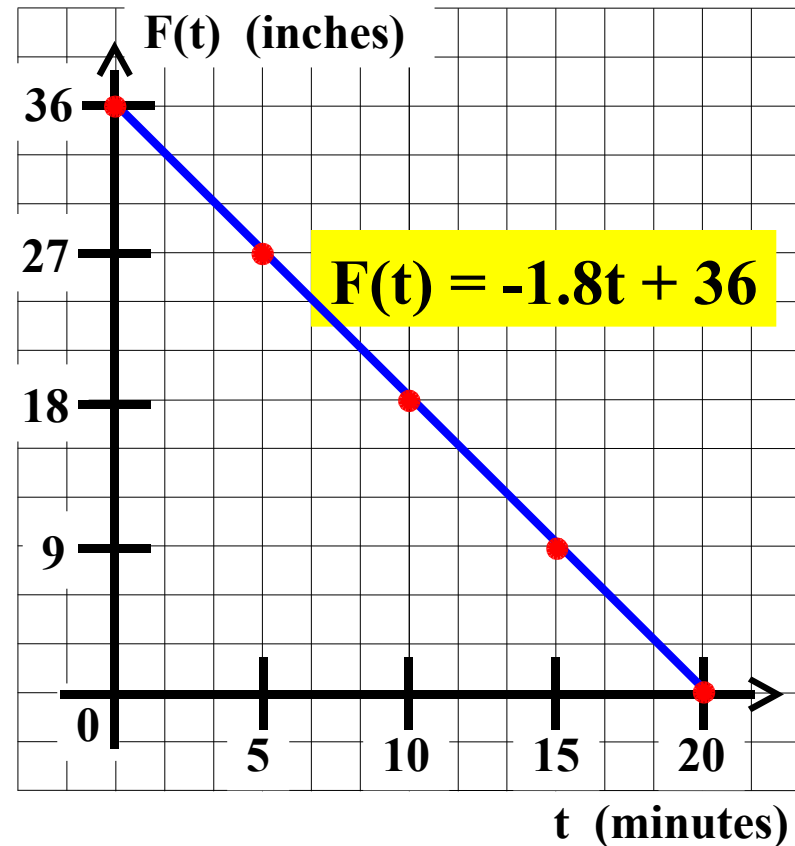
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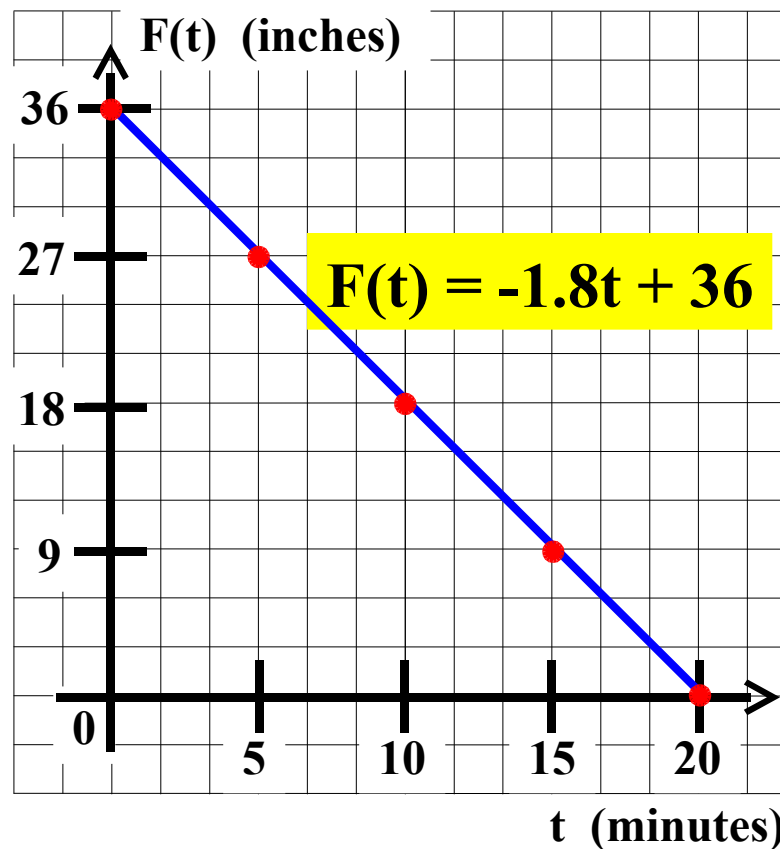
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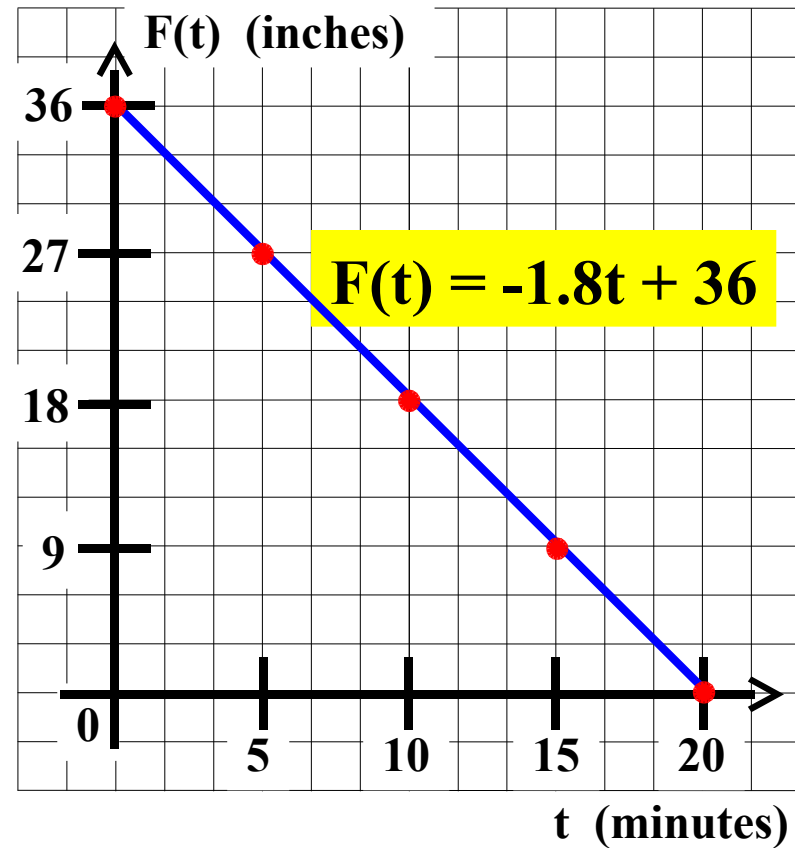
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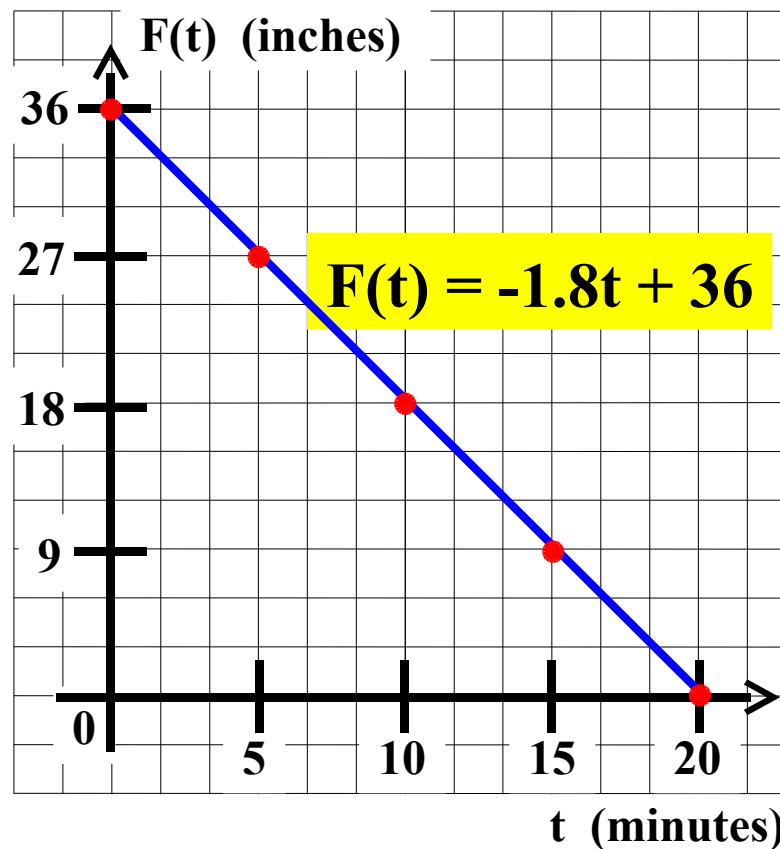
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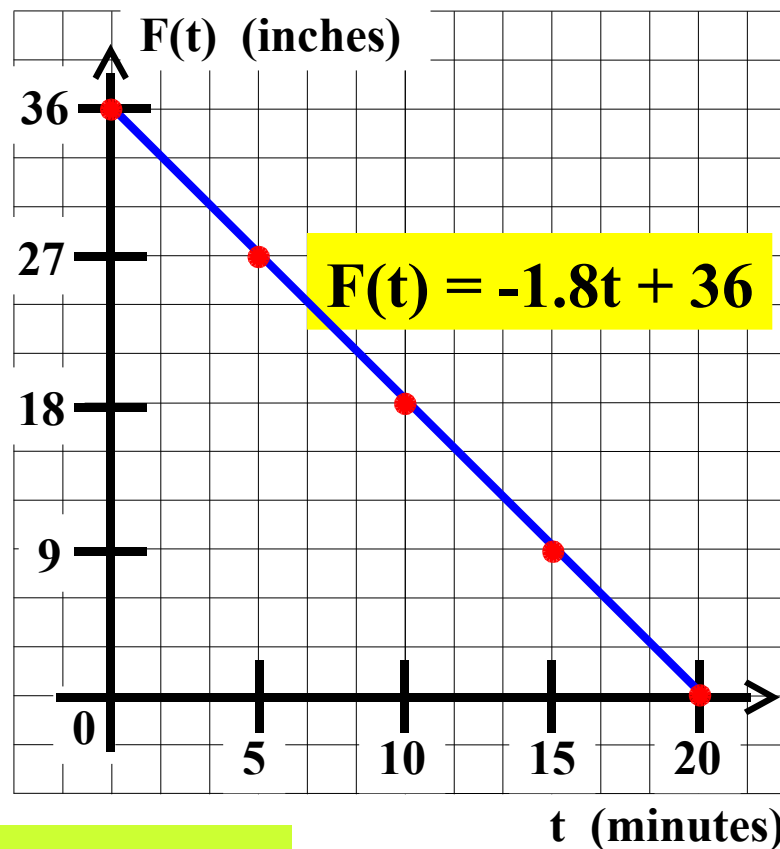
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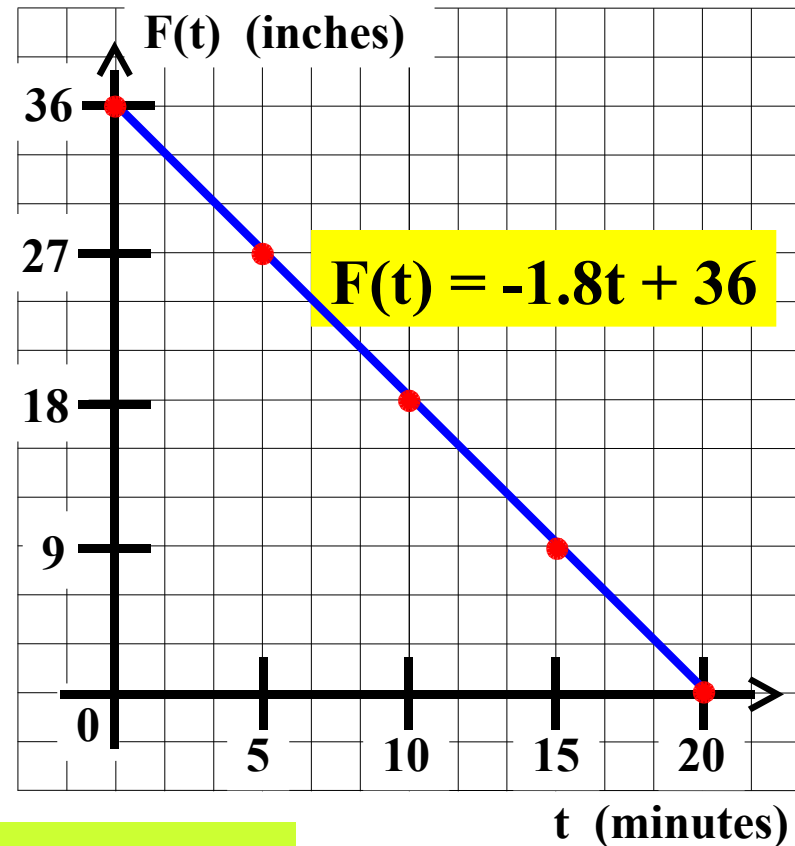
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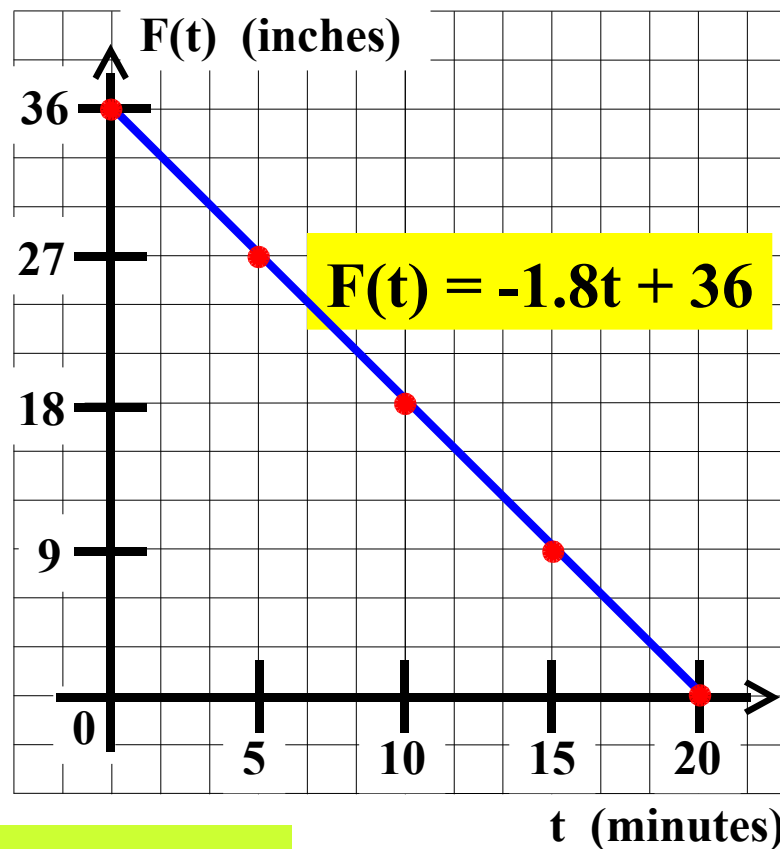
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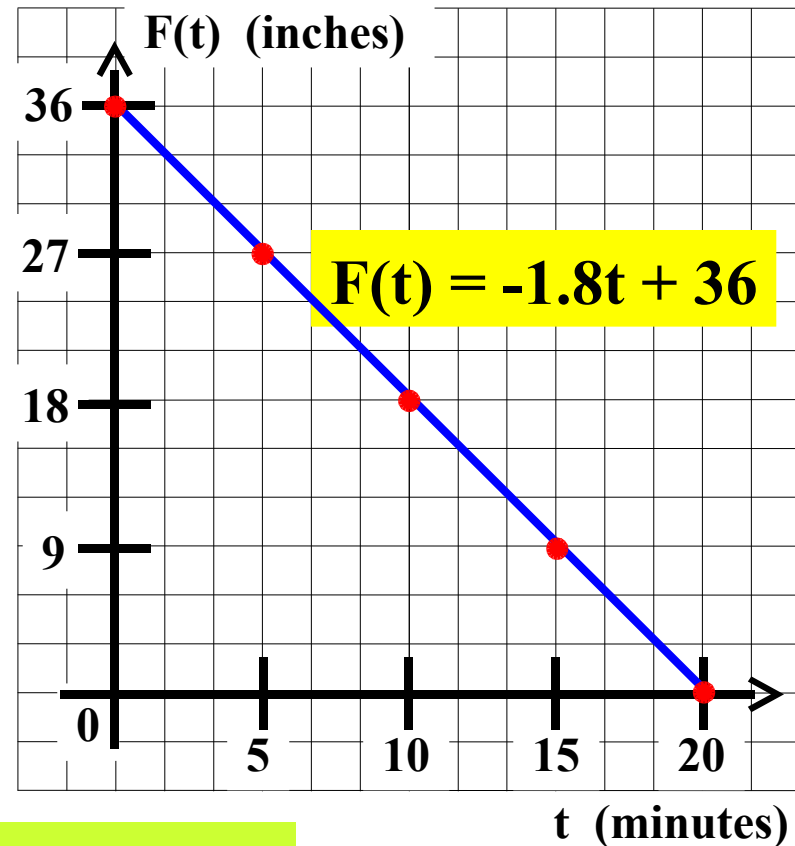
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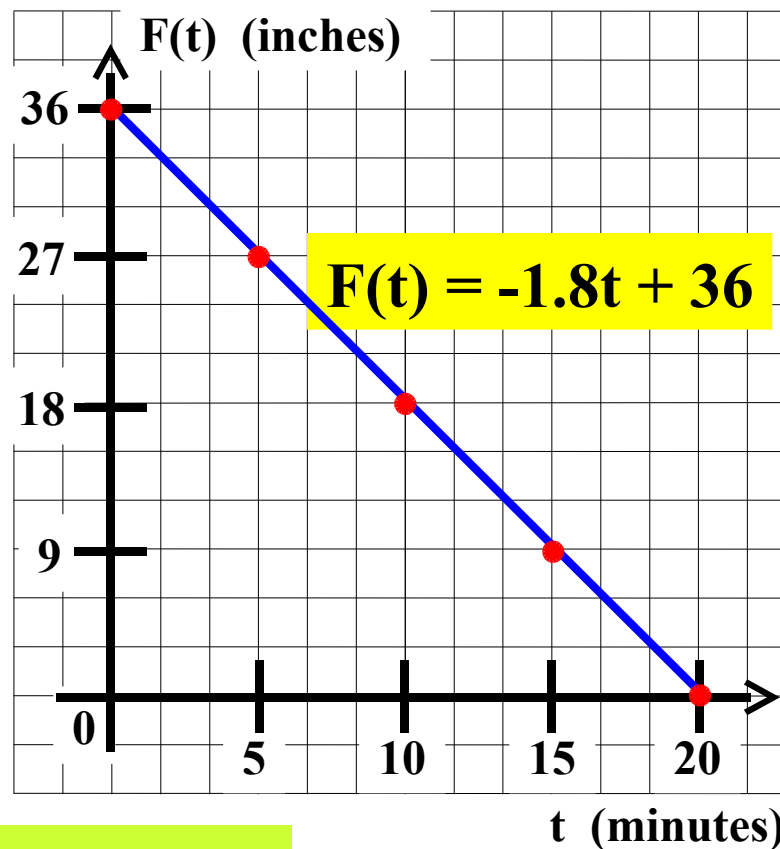
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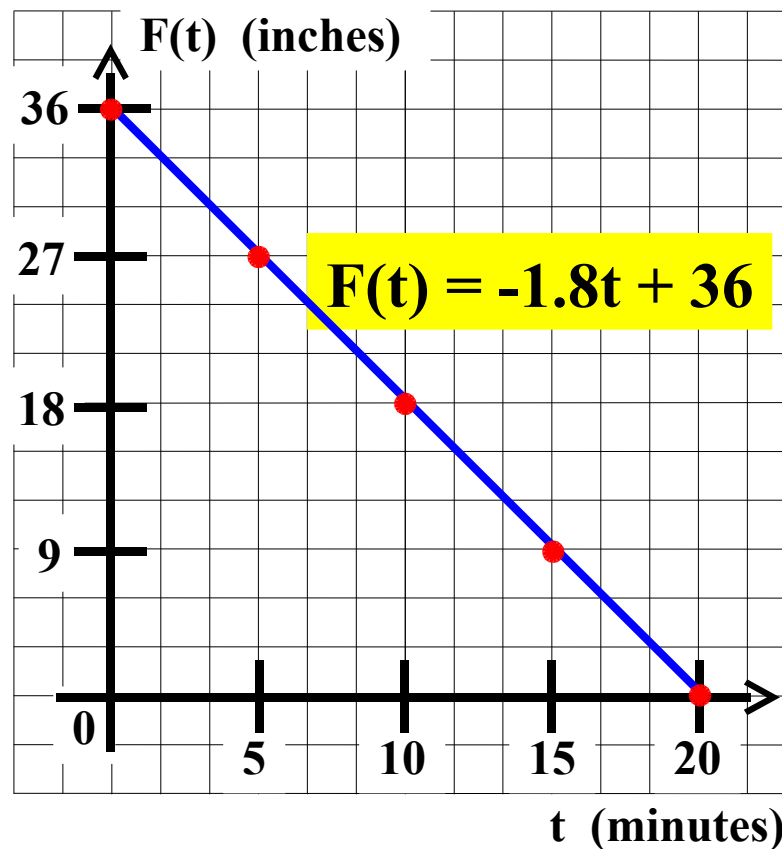
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domain
[0, 20]

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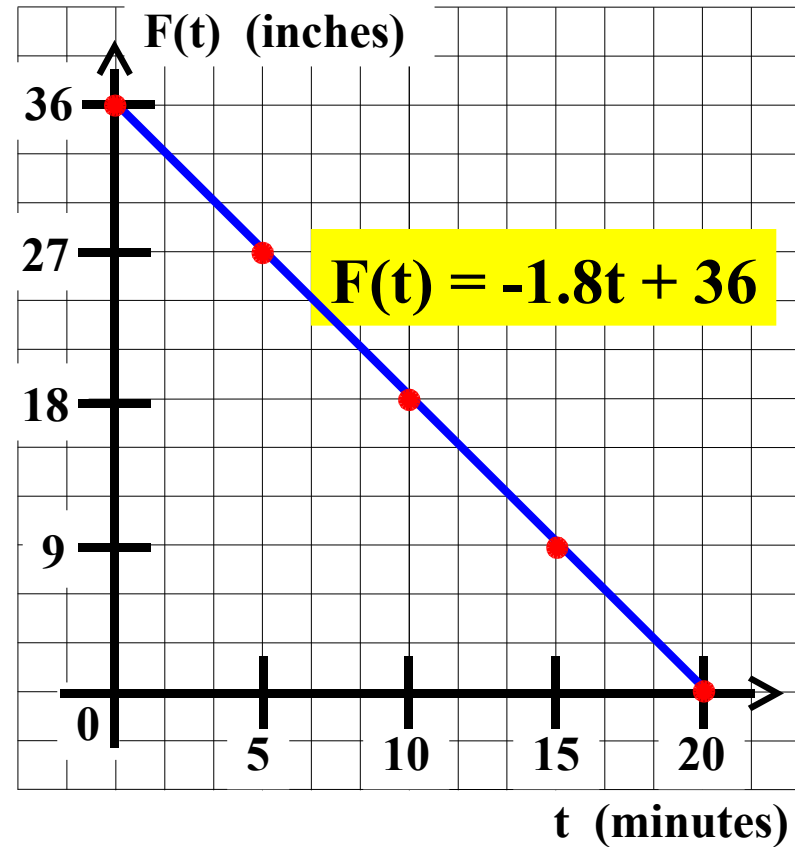
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domain
 $[0, 20]$

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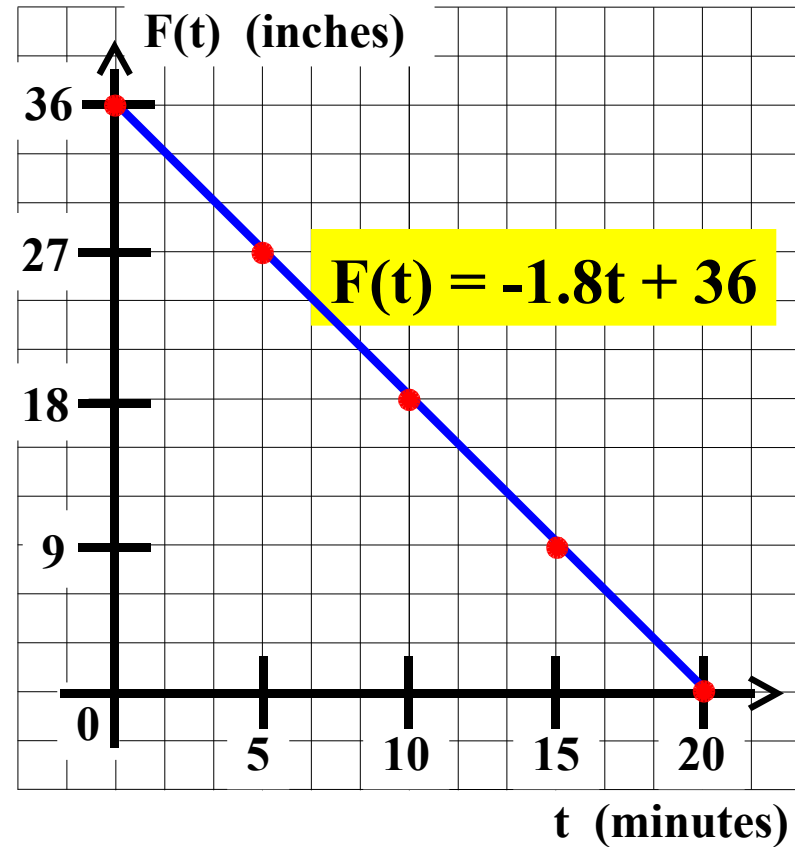
9. How long will it take to empty the tank? 20 minutes

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0	36
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domain
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14. What is the range of function F ? _____

Algebra II Class Worksheet #5 Unit 3

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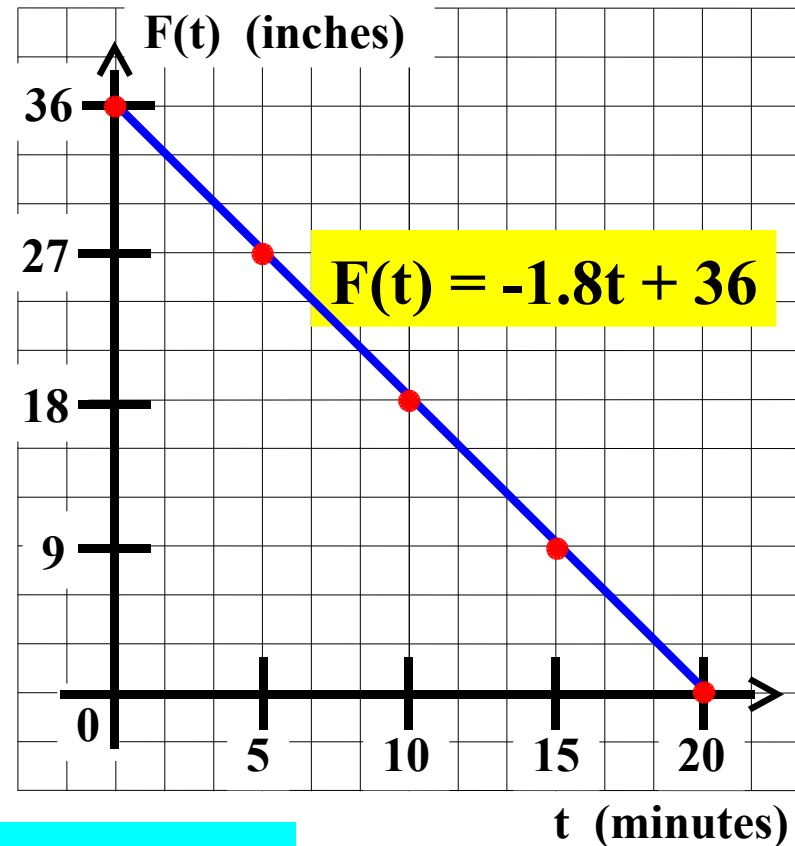
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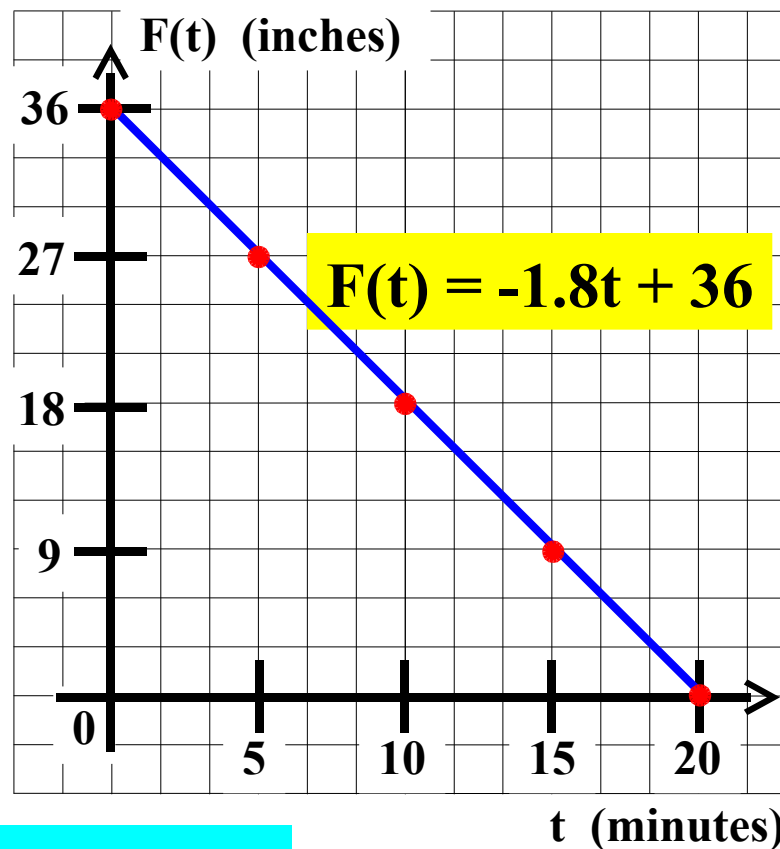
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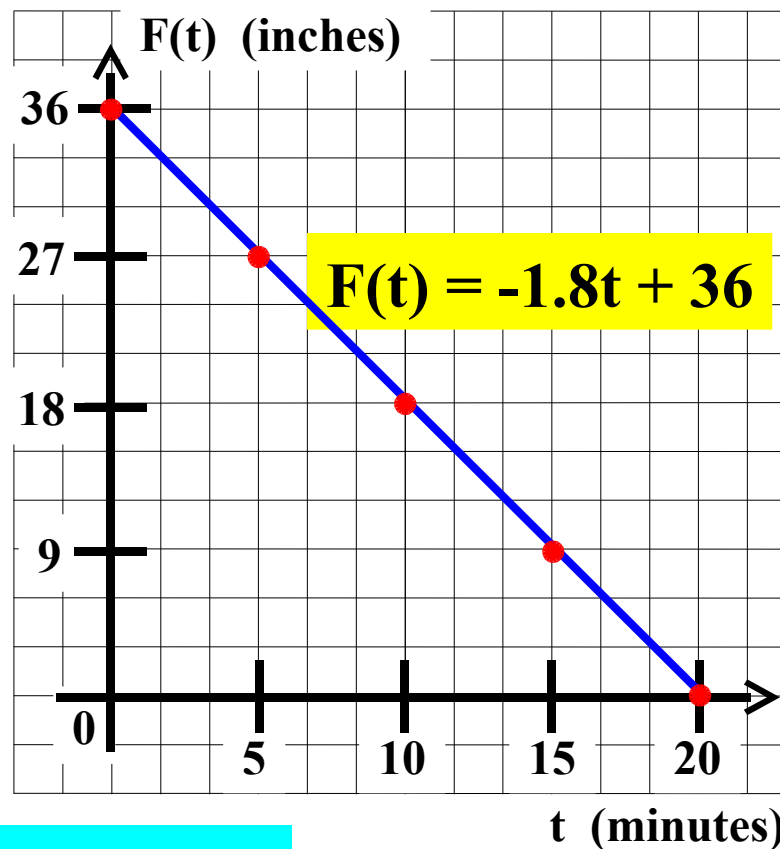
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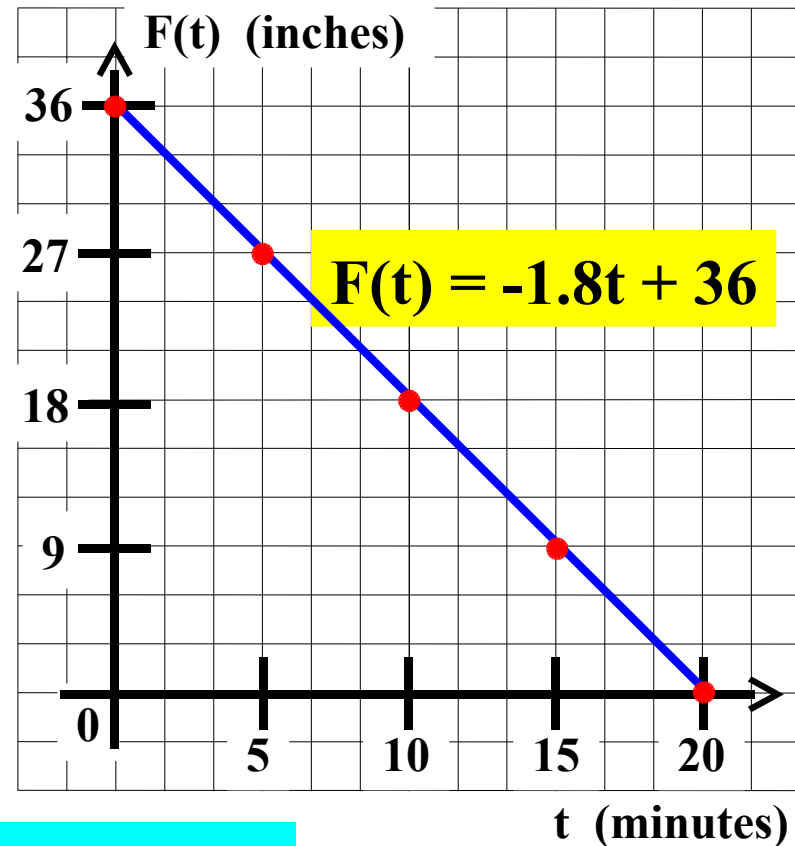
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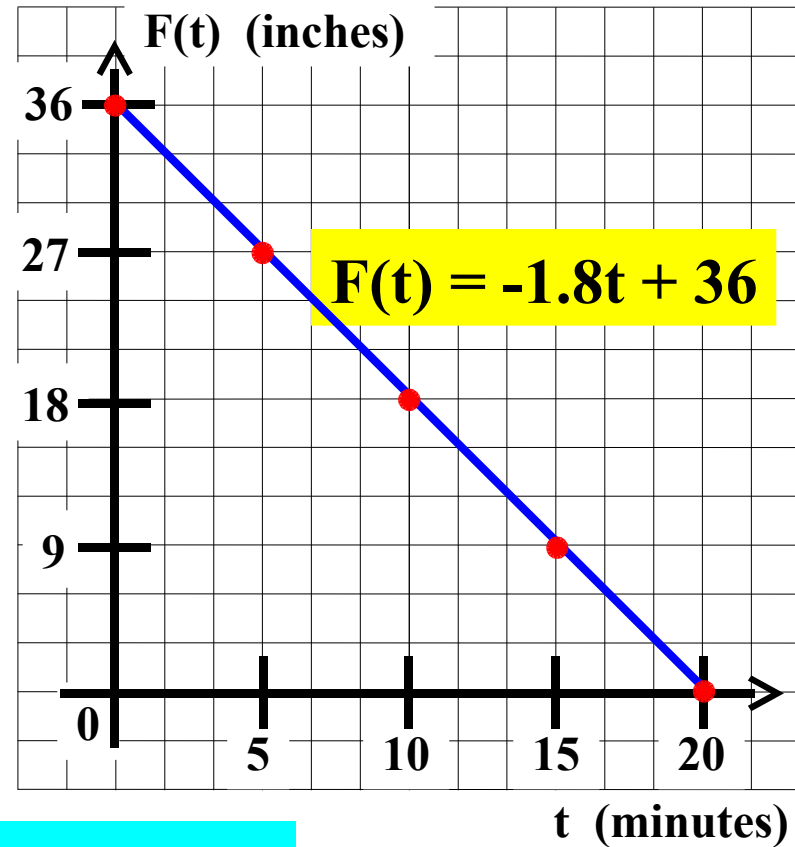
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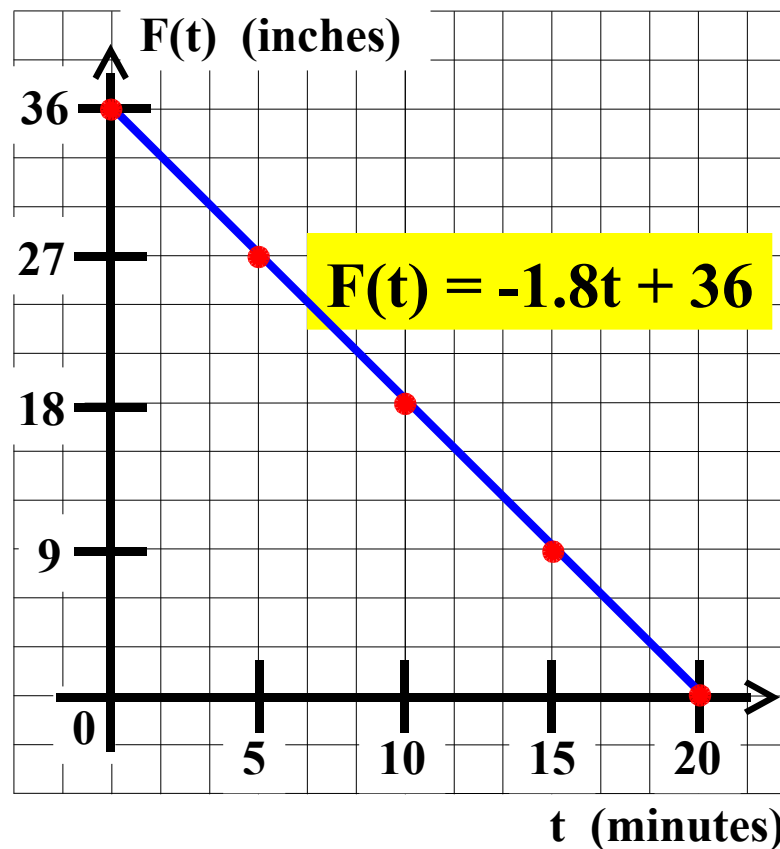
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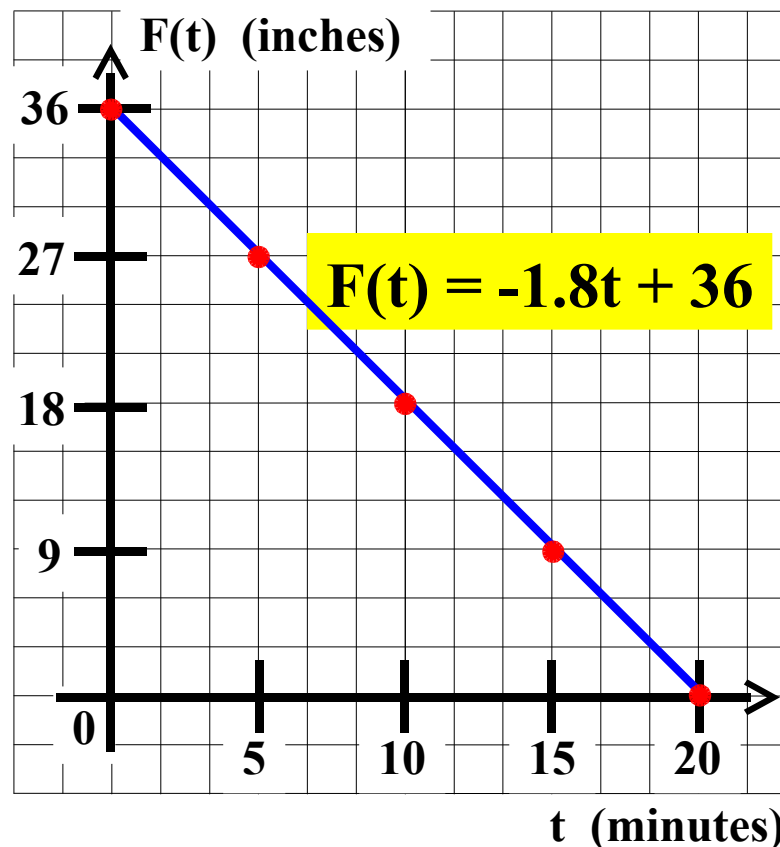
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range

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15. Evaluate $F(15)$.



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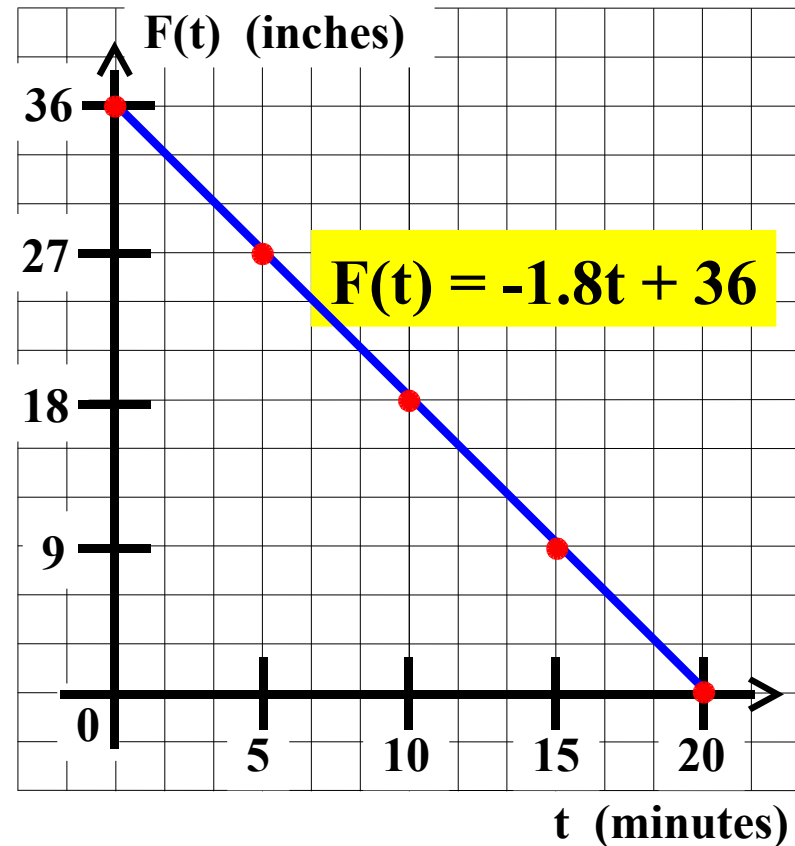
domain

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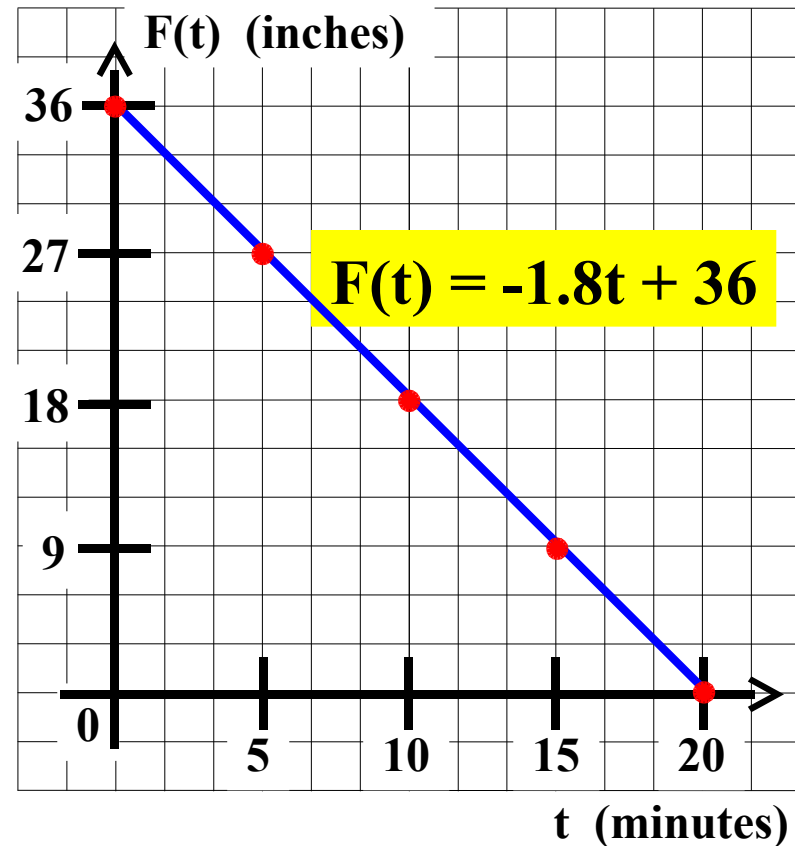
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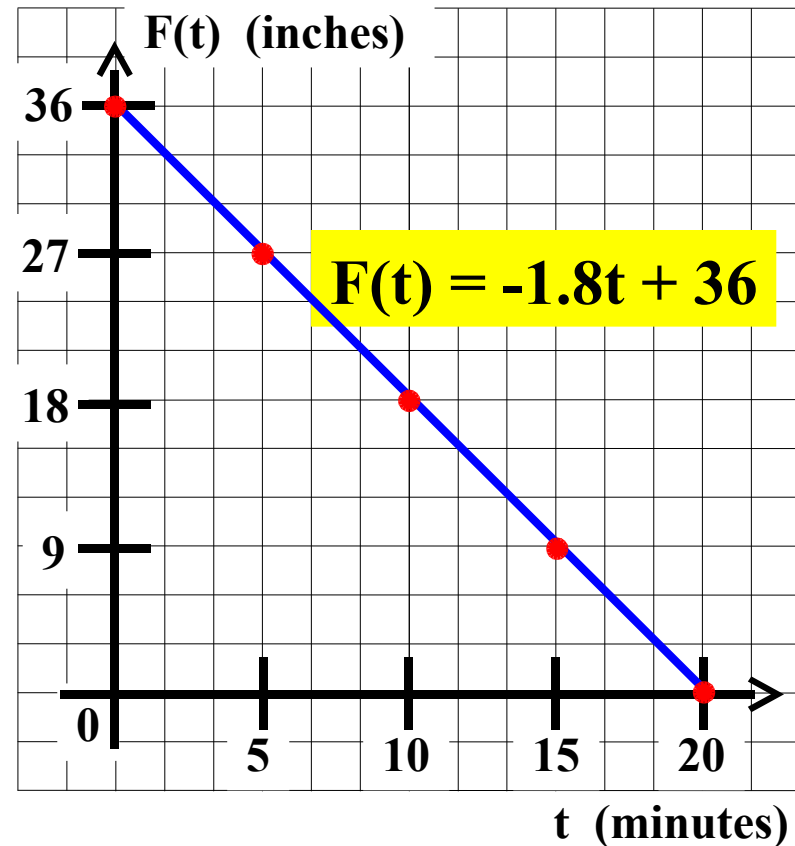
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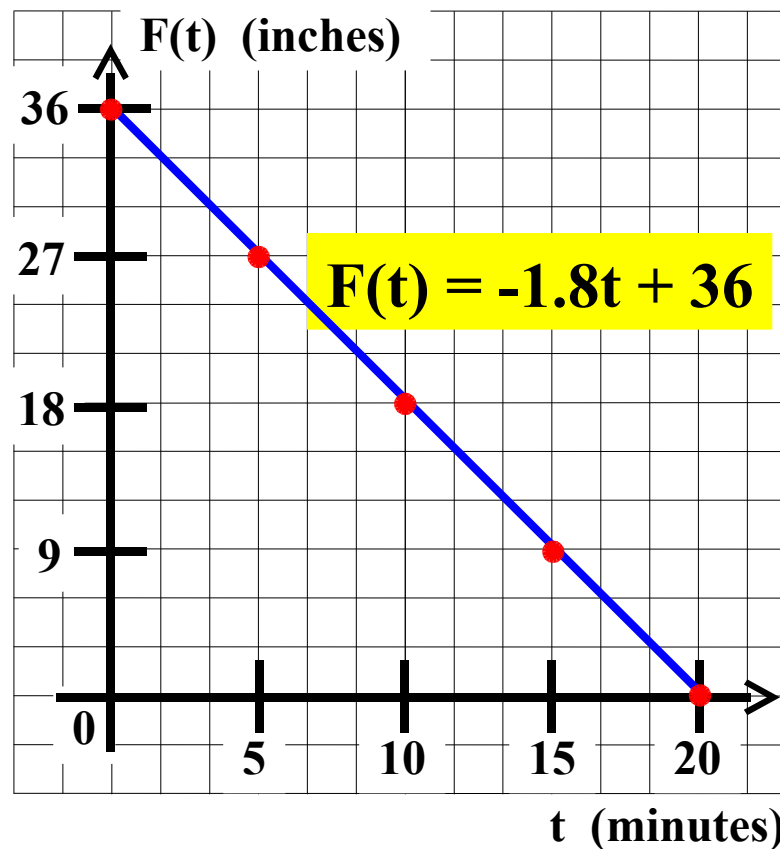
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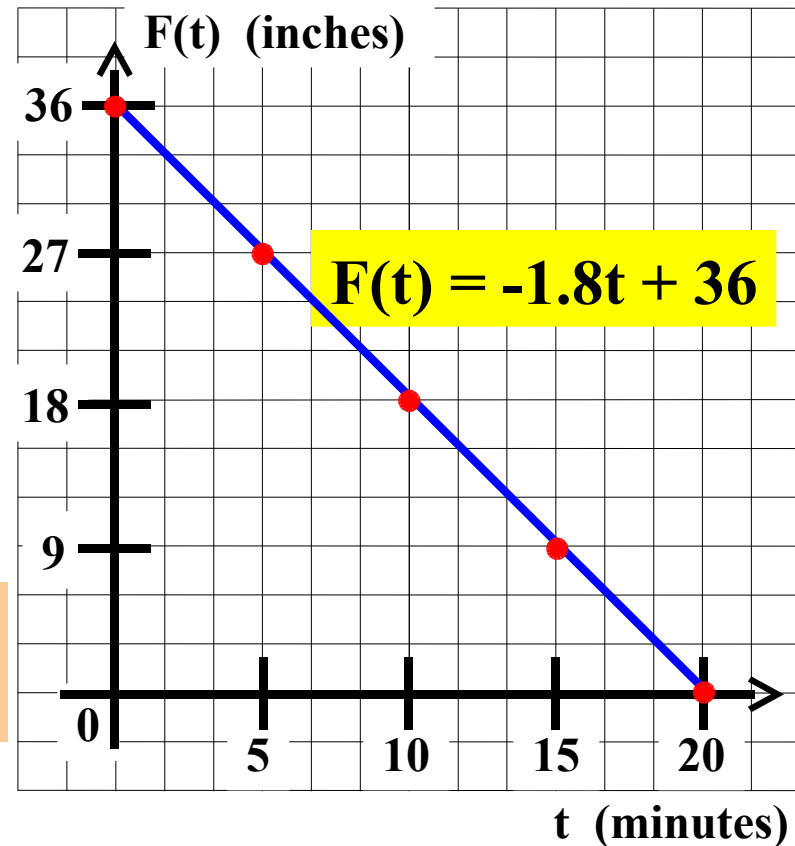
range

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15. Evaluate $F(15)$.

What does $F(15)$ represent in terms of the problem?

$$F(15) = 9$$



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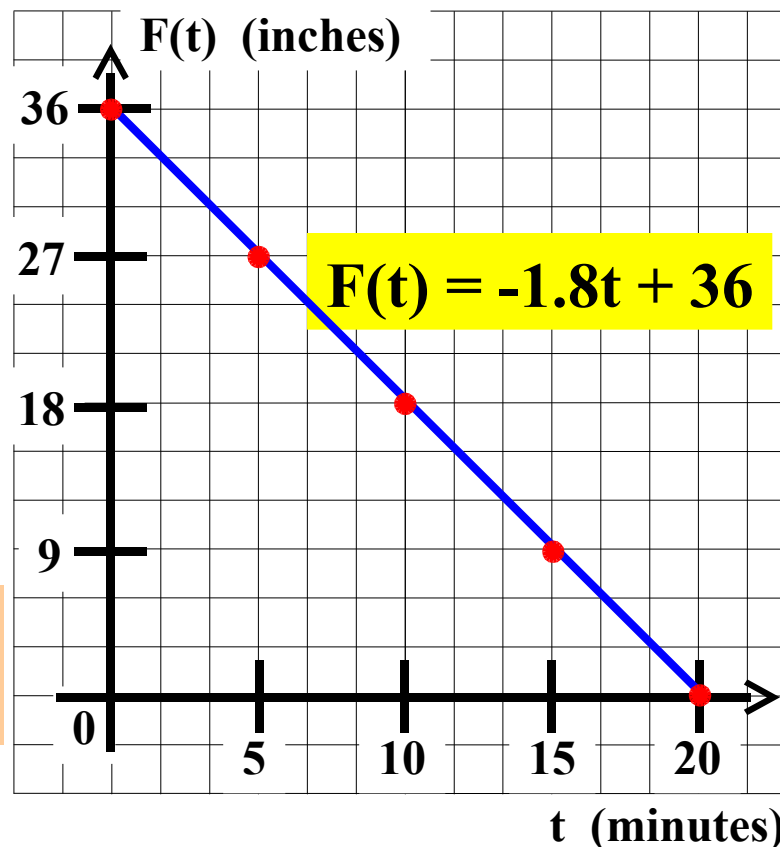
$[0, 36]$

15. Evaluate $F(15)$.

What does $F(15)$ represent in terms of the problem?

$$F(15) = 9$$

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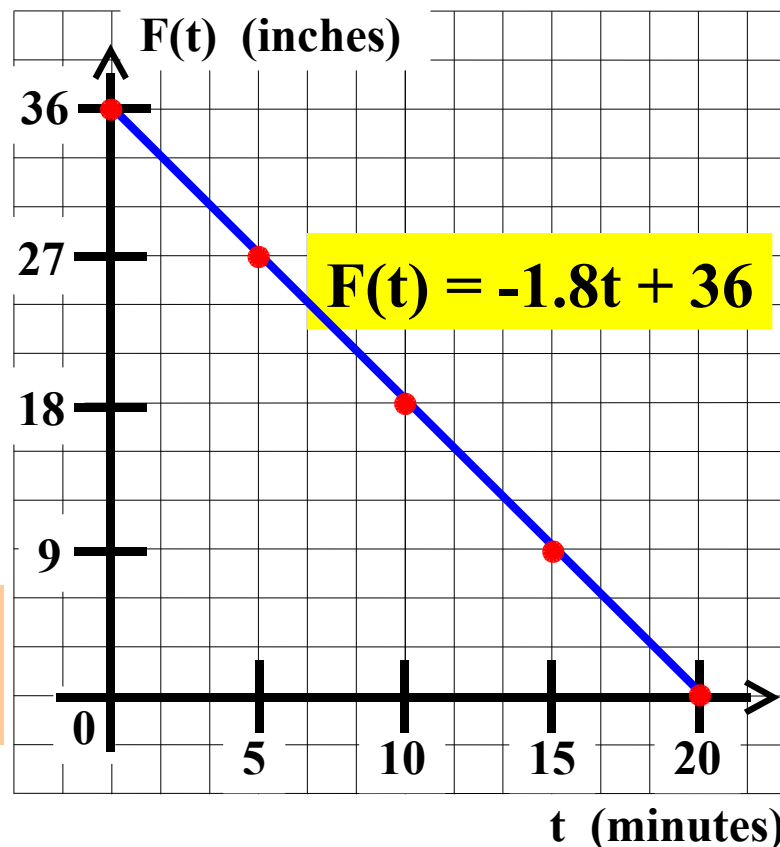
$[0, 36]$

15. Evaluate $F(15)$.

What does $F(15)$ represent in terms of the problem?

$$F(15) = 9$$

$F(15)$ represents the depth of the water



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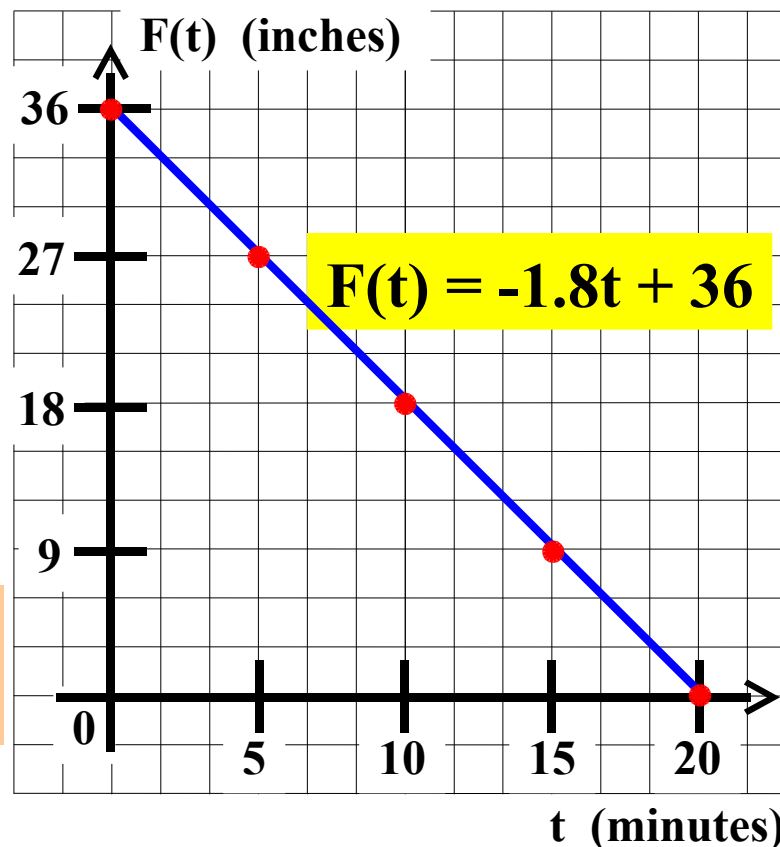
$[0, 36]$

15. Evaluate $F(15)$.

What does $F(15)$ represent in terms of the problem?

$$F(15) = 9$$

$F(15)$ represents the depth of the water after 15 minutes.



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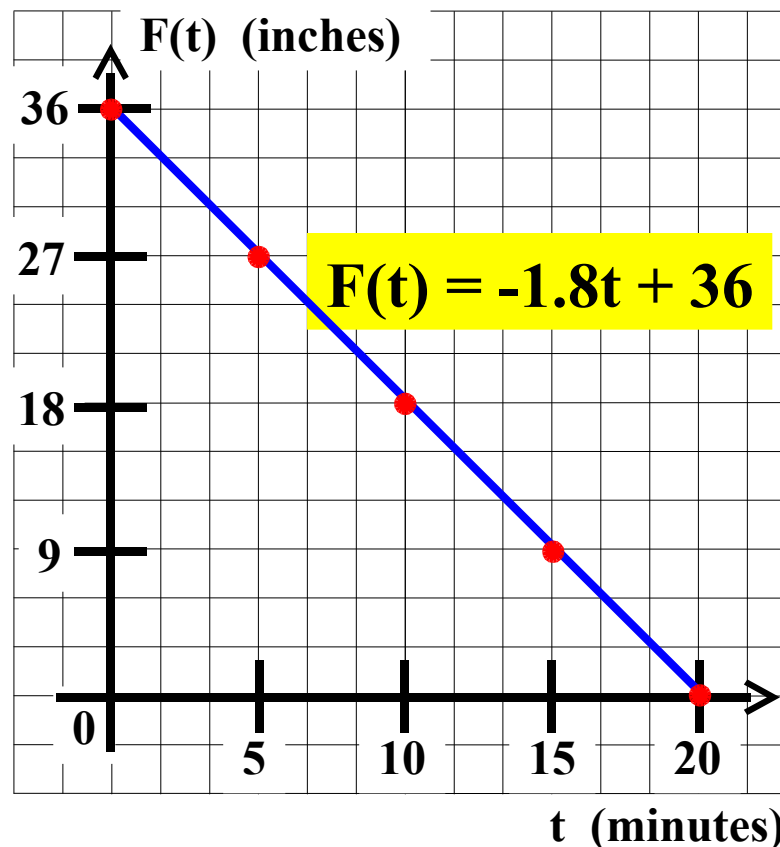
$[0, 36]$

15. Evaluate $F(15)$.

What does $F(15)$ represent in terms of the problem?

$F(15) = 9$ inches

$F(15)$ represents the depth of the water after 15 minutes.



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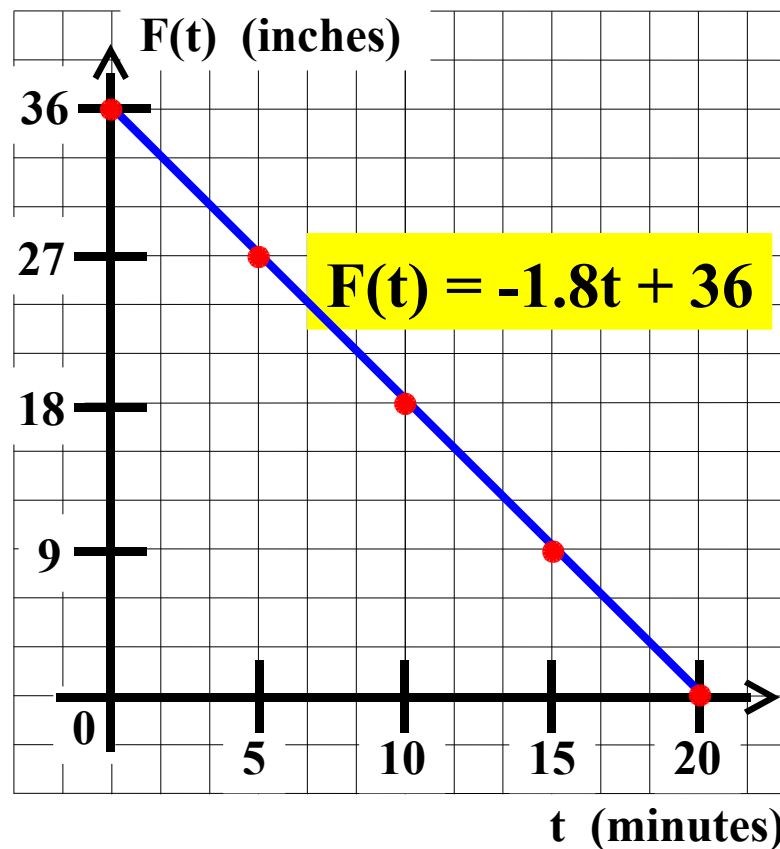
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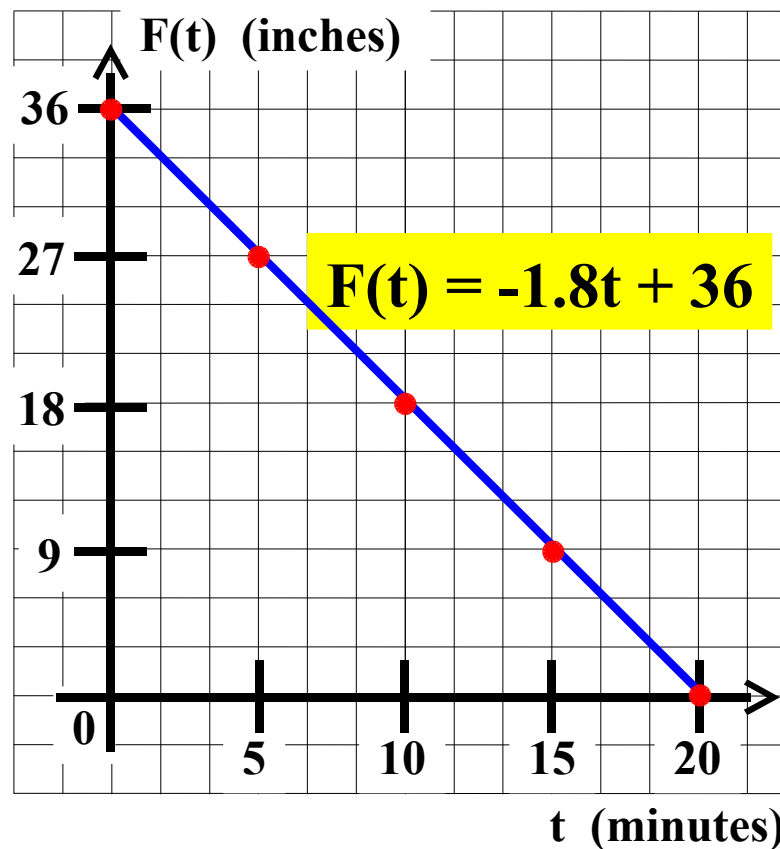
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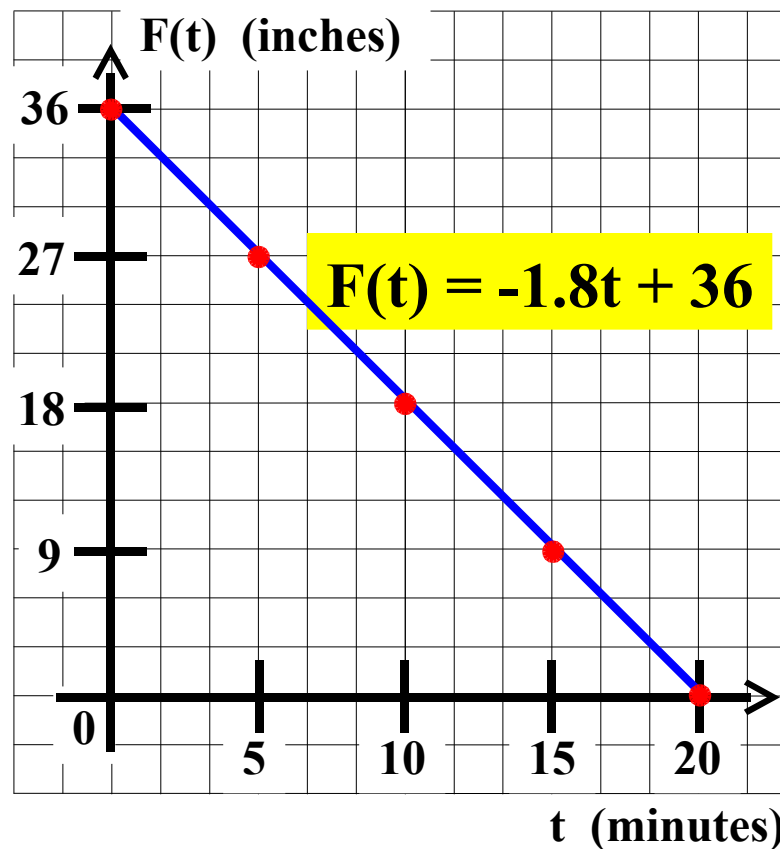
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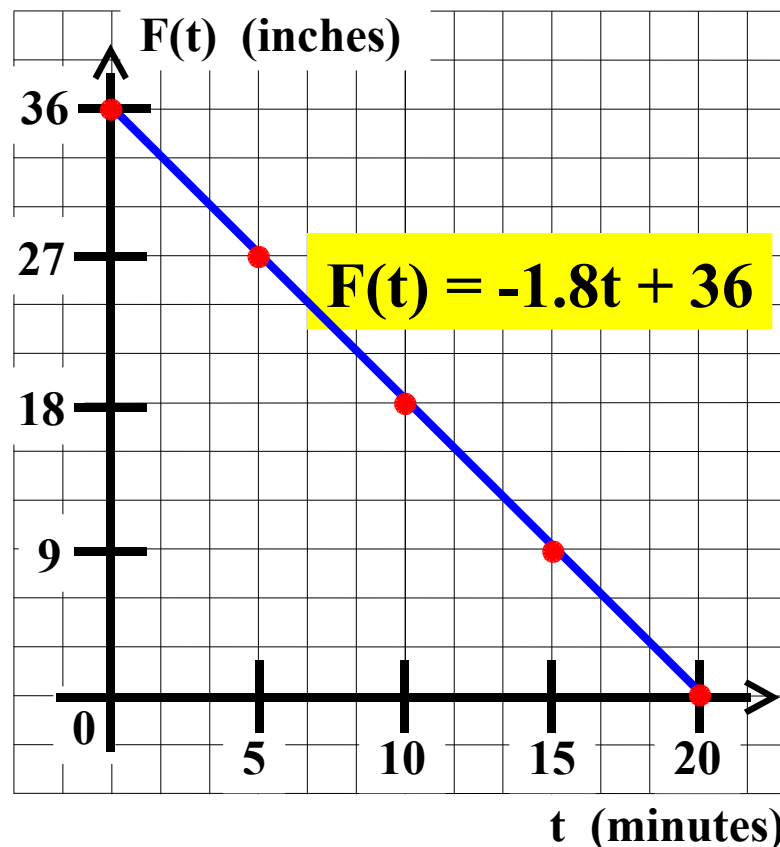
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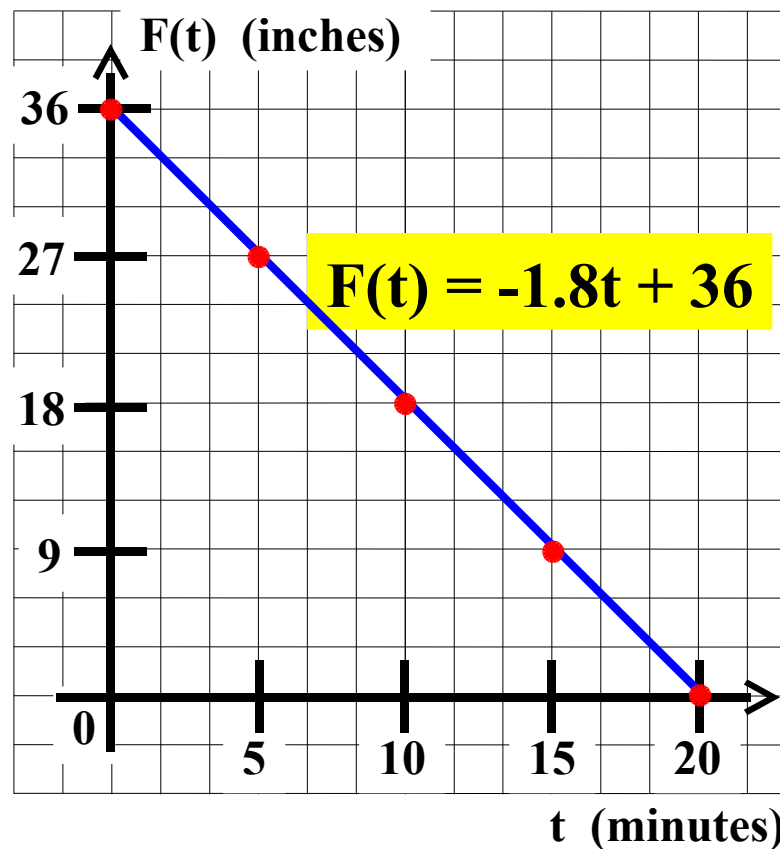
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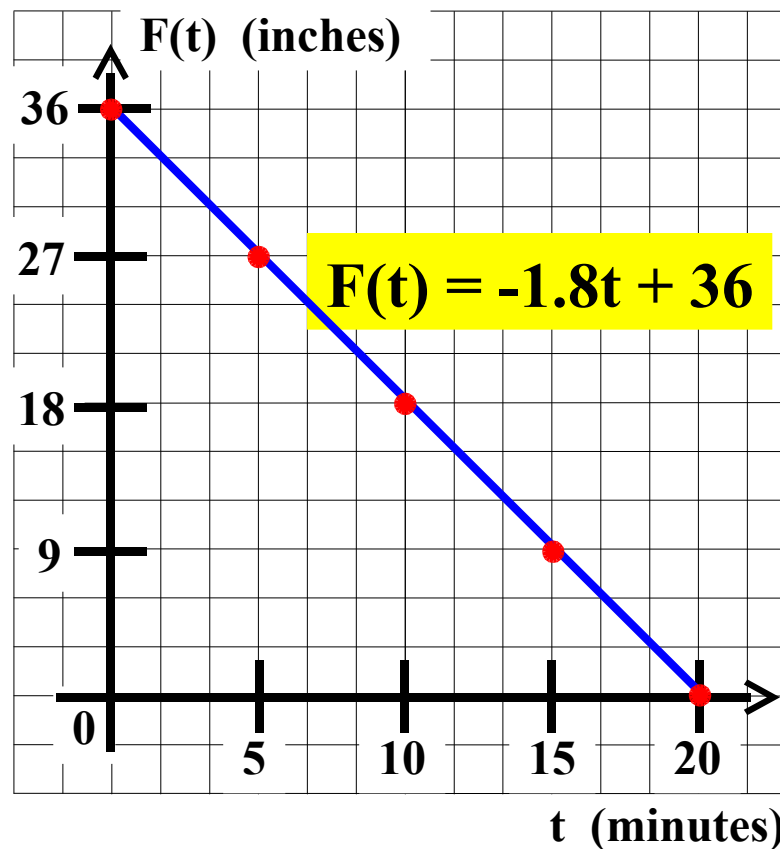
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16. If $F(t) = 27$, then find the value of t .

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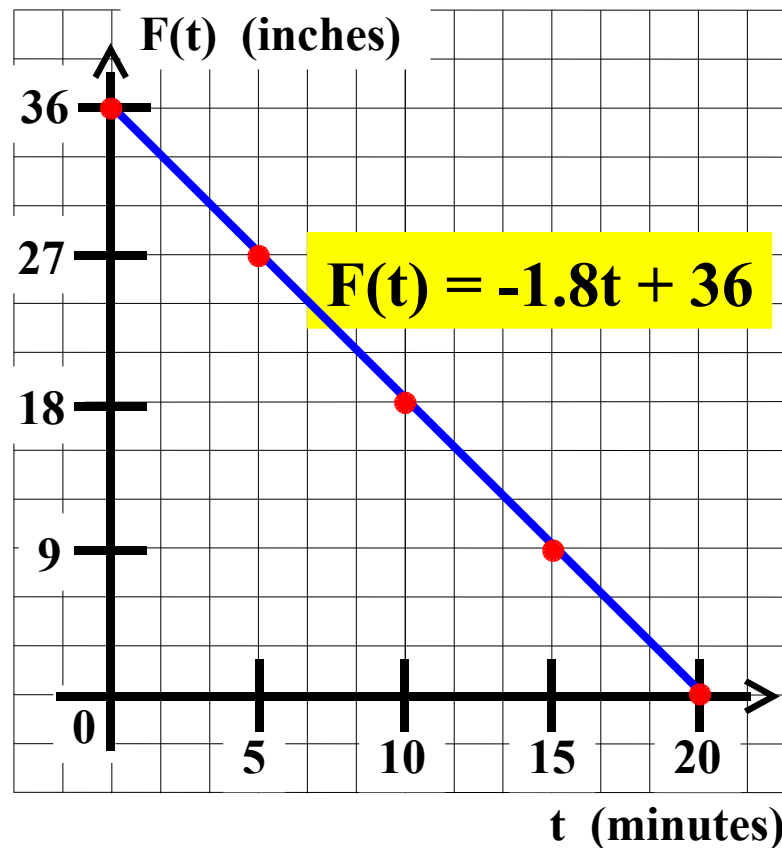
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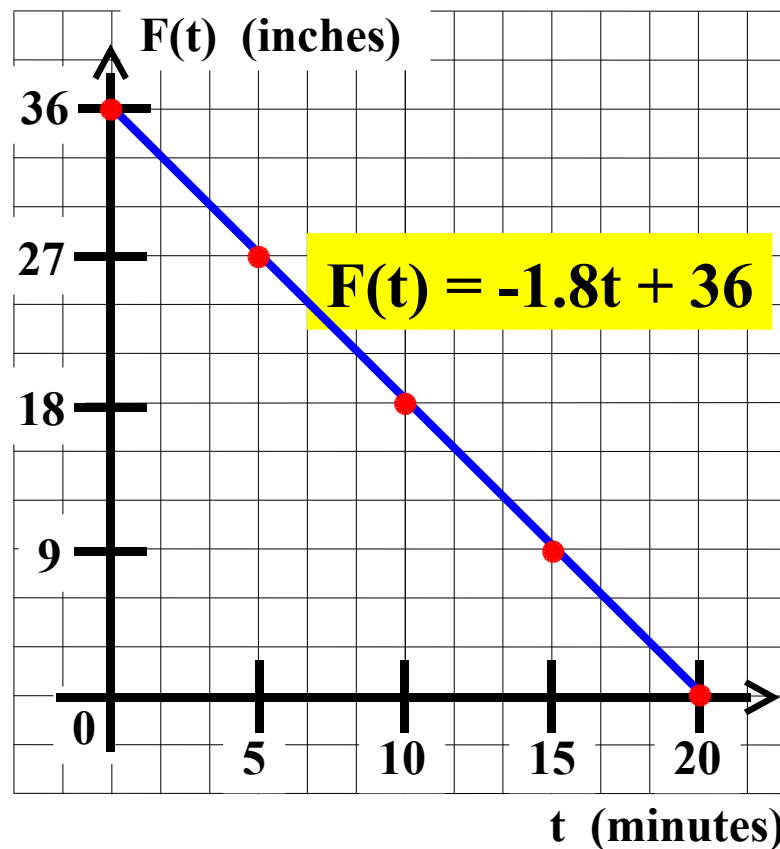
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11. Graph function F .

10. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is empty.

t	$F(t)$
0	36
5	27
10	18
15	9
20	0

domain

$[0, 20]$

range

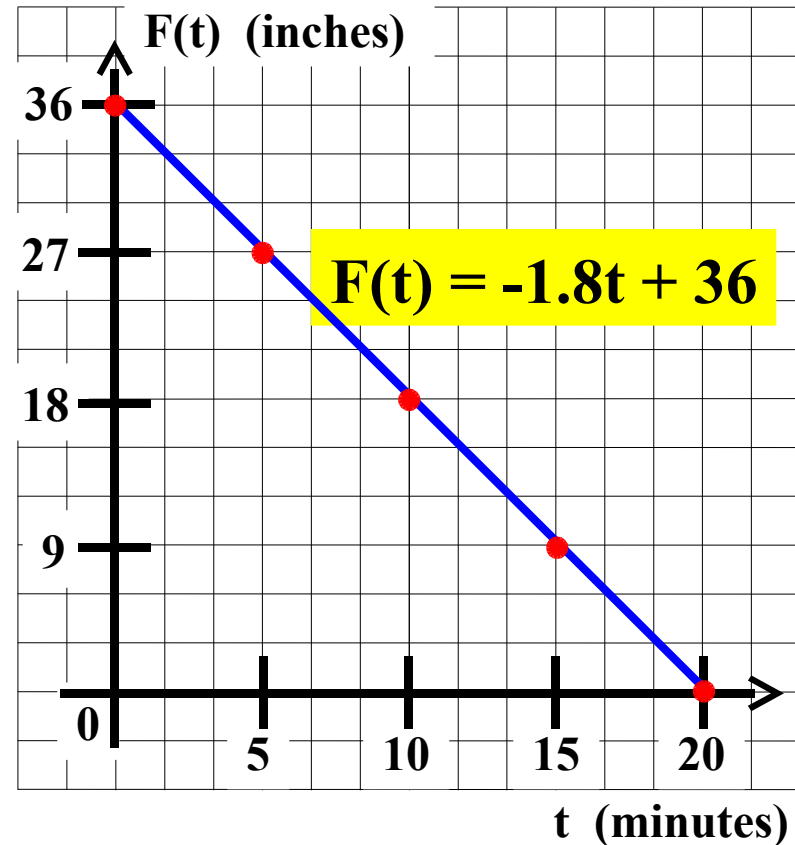
$[0, 36]$

16. If $F(t) = 27$, then find the value of t .

What does this value of t represent in terms of the problem?

$F(t) = 27 \longrightarrow t = 5$

This represents the time



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 10 feet long, 4 feet wide, and 3 feet deep. The tank is full initially and water is drained out of the tank at 6 cubic feet per minute until the tank is empty.

Let t represent the time that water has been draining out of the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

9. How long will it take to empty the tank? 20 minutes

11. Graph function F .

10. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is empty.

t	$F(t)$
0	36
5	27
10	18
15	9
20	0

domain

$[0, 20]$

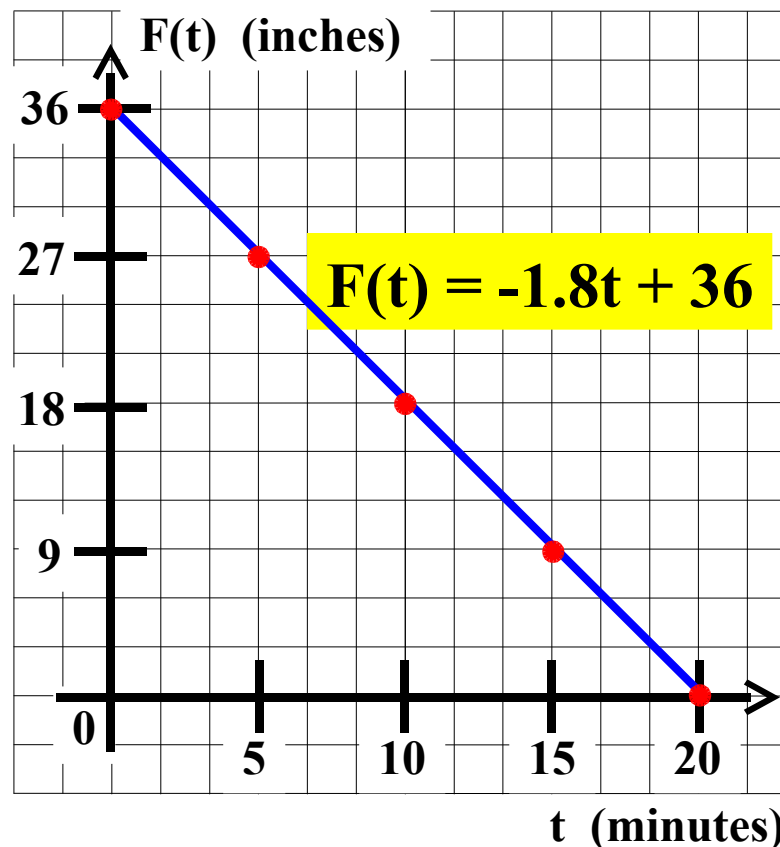
range

$[0, 36]$

16. If $F(t) = 27$, then find the value of t .

What does this value of t represent in terms of the problem?

$F(t) = 27 \longrightarrow t = 5$



This represents the time it took for the water to be 27 inches deep.

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 10 feet long, 4 feet wide, and 3 feet deep. The tank is full initially and water is drained out of the tank at 6 cubic feet per minute until the tank is empty.

Let t represent the time that water has been draining out of the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

9. How long will it take to empty the tank? 20 minutes

11. Graph function F .

10. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is empty.

t	$F(t)$
0	36
5	27
10	18
15	9
20	0

domain

$[0, 20]$

range

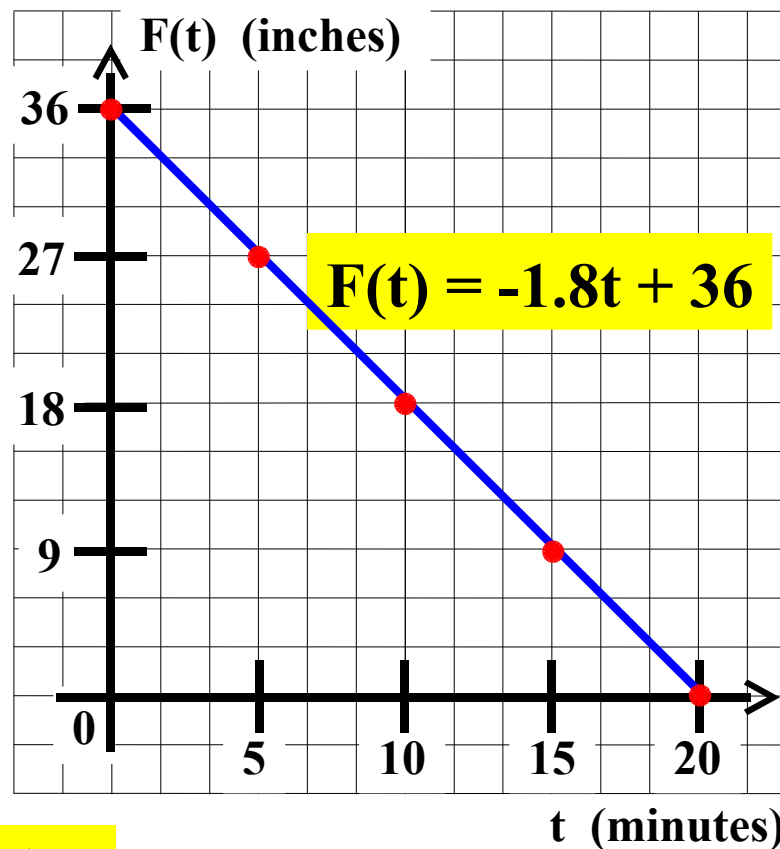
$[0, 36]$

16. If $F(t) = 27$, then find the value of t .

What does this value of t represent in terms of the problem?

$F(t) = 27 \longrightarrow t = 5$ minutes

This represents the time it took for the water to be 27 inches deep.



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? _____

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? _____

$$V = LWH$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? _____

$$V = LWH$$

$$V =$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

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$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

$$V =$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in minutes).

Let $F(t)$ represent the depth of the water in the tank (in inches).

17. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

60 cubic feet must be added to fill the tank.

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

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$$V = LWH$$

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Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

60 cubic feet must be added to fill the tank.

Time =

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

60 cubic feet must be added to fill the tank.

$$\text{Time} = 60 \text{ cu. ft.}$$

Algebra II Class Worksheet #5 Unit 3

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Let t represent the time that water has been pumped into the tank (in **minutes**).

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17. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

60 cubic feet must be added to fill the tank.

$$\text{Time} = 60 \text{ cu. ft.} \div 2 \text{ cu. ft. per min.}$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

60 cubic feet must be added to fill the tank.

$$\text{Time} = 60 \text{ cu. ft.} \div 2 \text{ cu. ft. per min.}$$

$$\text{Time} =$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? _____

$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

60 cubic feet must be added to fill the tank.

$$\text{Time} = 60 \text{ cu. ft.} \div 2 \text{ cu. ft. per min.}$$

$$\text{Time} = 30 \text{ minutes}$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

$$V = LWH$$

$$V = (8 \text{ ft.})(5 \text{ ft.})(3 \text{ ft.})$$

$$V = 120 \text{ cu. ft.}$$

60 cubic feet must be added to fill the tank.

$$\text{Time} = 60 \text{ cu. ft.} \div 2 \text{ cu. ft. per min.}$$

$$\text{Time} = 30 \text{ minutes}$$

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	
5	
10	
15	
20	
25	
30	

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	
5	
10	
15	
20	
25	
30	

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	
5	
10	
15	
20	
25	
30	

When $t = 0$, the tank is half full.

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	
5	
10	
15	
20	
25	
30	

**When $t = 0$, the tank is half full.
The water is 18 inches deep.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
30	

**When $t = 0$, the tank is half full.
The water is 18 inches deep.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
30	

**When $t = 0$, the tank is half full.
The water is 18 inches deep.**



Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
→ 30	

When $t = 0$, the tank is half full.

The water is 18 inches deep.

When $t = 30$, the tank is full.

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
→ 30	

When $t = 0$, the tank is half full.

The water is 18 inches deep.

When $t = 30$, the tank is full.

The water is 36 inches deep.

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
→ 30	36

When $t = 0$, the tank is half full.

The water is 18 inches deep.

When $t = 30$, the tank is full.

The water is 36 inches deep.

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
30	36

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).


17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$

every 5 minutes from $t = 0$ until

the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
30	36



**The water depth increases
18 inches.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? **30 minutes**

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
30	36

**The water depth increases
18 inches in 30 minutes.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
30	36

**The water depth increases
18 inches in 30 minutes.**

**It increases at 0.6 inches
per minute.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
30	36

**The water depth increases
18 inches in 30 minutes.**

**It increases at 0.6 inches
per minute.**

**It increases 3 inches
every 5 minutes.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

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the tank is full.

t	$F(t)$
0	18
5	
10	
15	
20	
25	
30	36

**The water depth increases
18 inches in 30 minutes.**

**It increases at 0.6 inches
per minute.**

**It increases 3 inches
every 5 minutes.**

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A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

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t	$F(t)$
0	18
5	
10	
15	
20	
25	
30	36

The water depth increases 18 inches in 30 minutes.

It increases at 0.6 inches per minute.

It increases 3 inches every 5 minutes.

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A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	21
10	
15	
20	
25	
30	36

The water depth increases 18 inches in 30 minutes.

It increases at 0.6 inches per minute.

It increases 3 inches every 5 minutes.

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

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t	$F(t)$
0	18
5	21
10	
15	
20	
25	
30	36



**The water depth increases
18 inches in 30 minutes.**

**It increases at 0.6 inches
per minute.**

**It increases 3 inches
every 5 minutes.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	21
10	24
15	
20	
25	
30	36



**The water depth increases
18 inches in 30 minutes.**

**It increases at 0.6 inches
per minute.**

**It increases 3 inches
every 5 minutes.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

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Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

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t	$F(t)$
0	18
5	21
10	24
15	
20	
25	
30	36



**The water depth increases
18 inches in 30 minutes.**

**It increases at 0.6 inches
per minute.**

**It increases 3 inches
every 5 minutes.**

Algebra II Class Worksheet #5 Unit 3

A rectangular water tank is 8 feet long, 5 feet wide, and 3 feet deep. The tank is half full initially and water is pumped into the tank at 2 cubic feet per minute until the tank is full.

Let t represent the time that water has been pumped into the tank (in **minutes**).

Let $F(t)$ represent the **depth of the water** in the tank (in **inches**).

17. How long will it take to fill the tank? 30 minutes

18. Make a table giving t and $F(t)$

every 5 minutes from $t = 0$ until

the tank is full.

t	$F(t)$
0	18
5	21
10	24
15	27
20	
25	
30	36



**The water depth increases
18 inches in 30 minutes.**

**It increases at 0.6 inches
per minute.**

**It increases 3 inches
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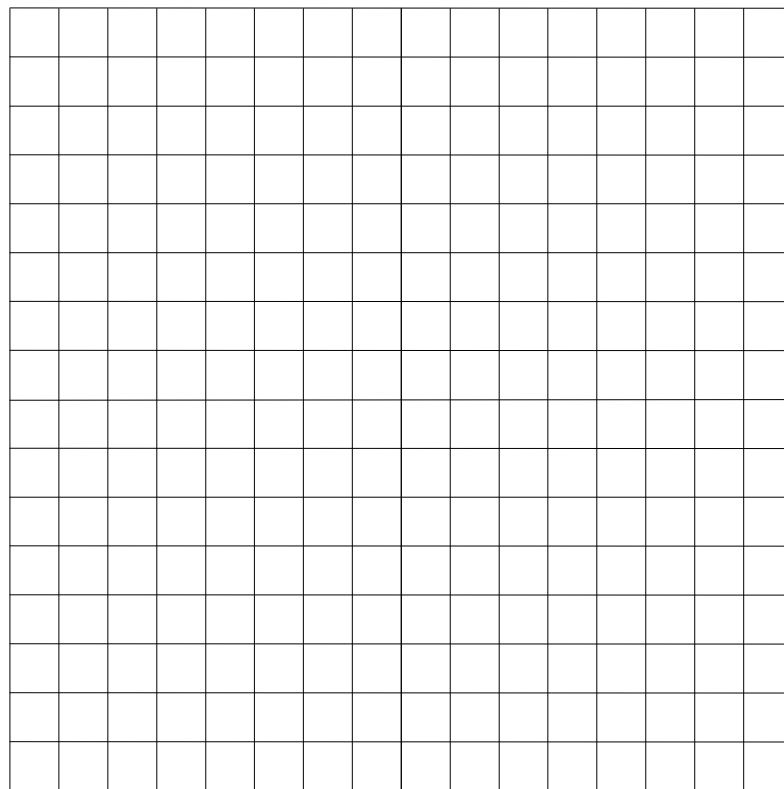
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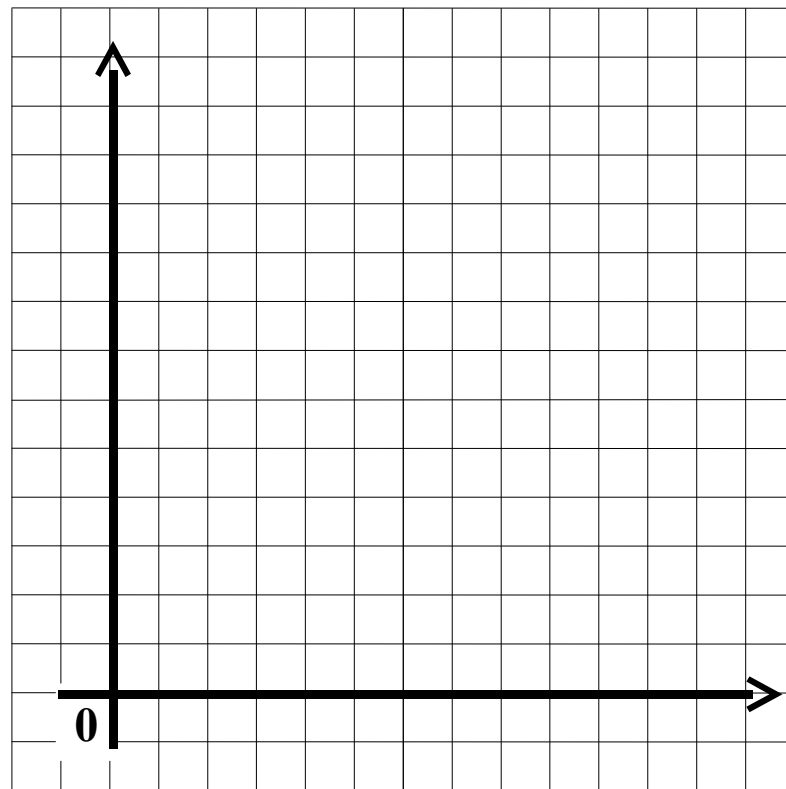
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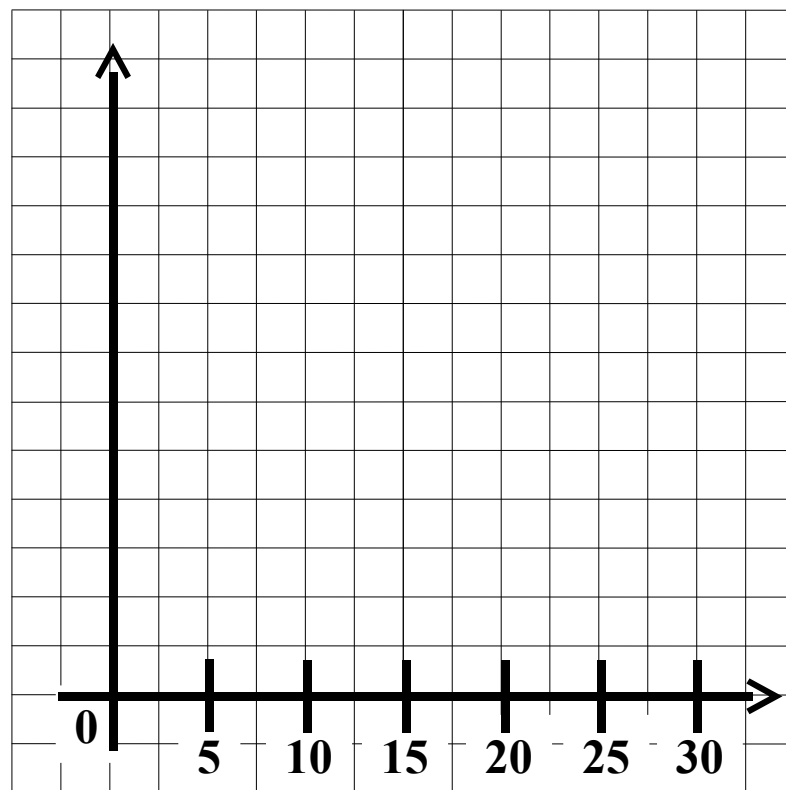
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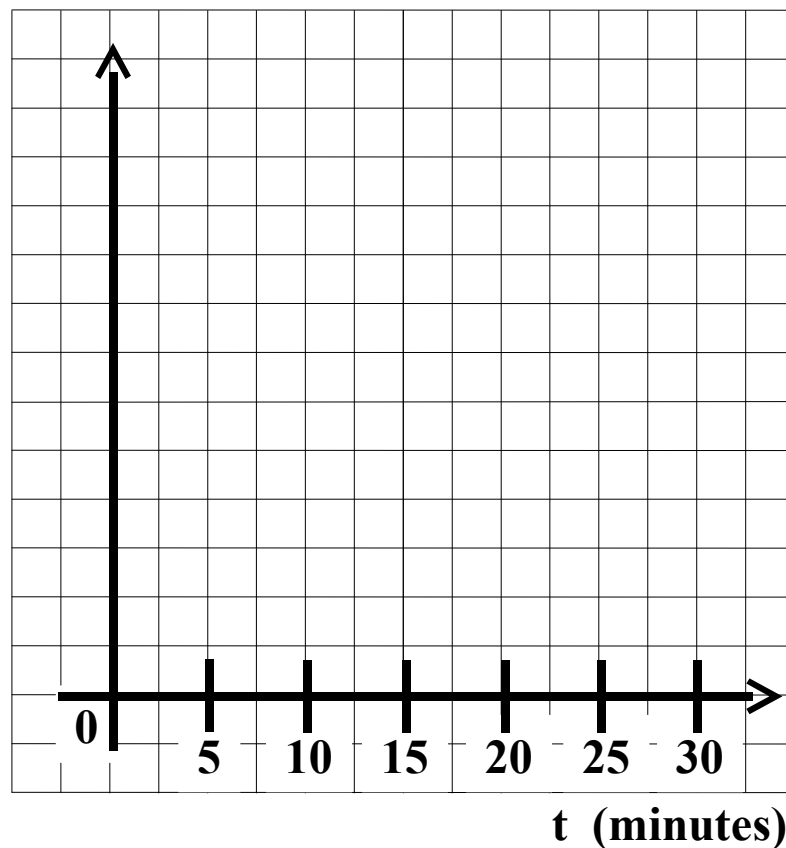
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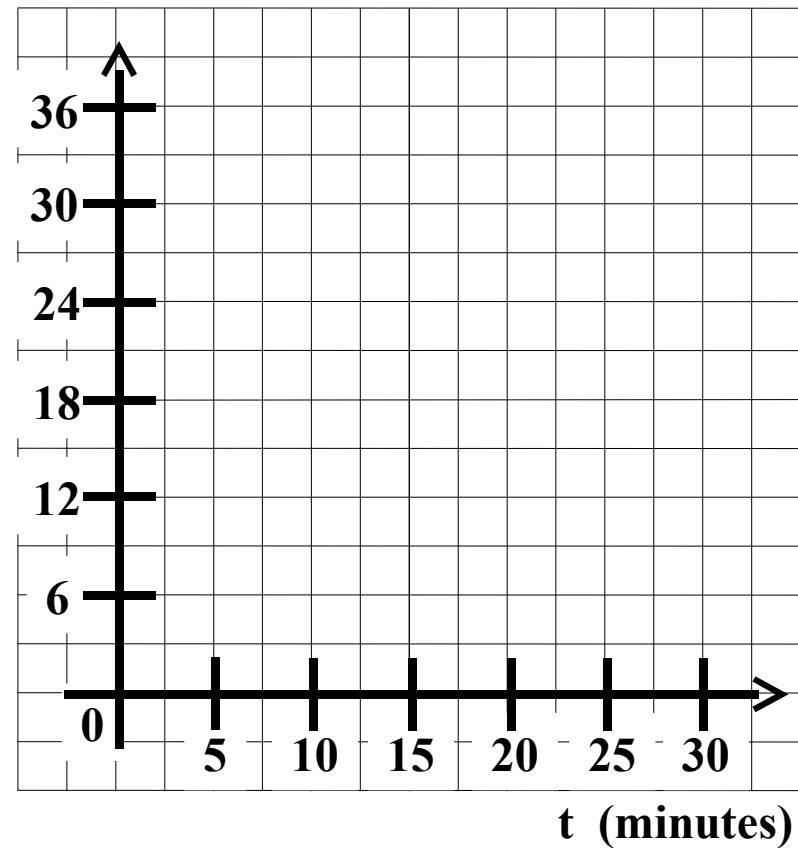
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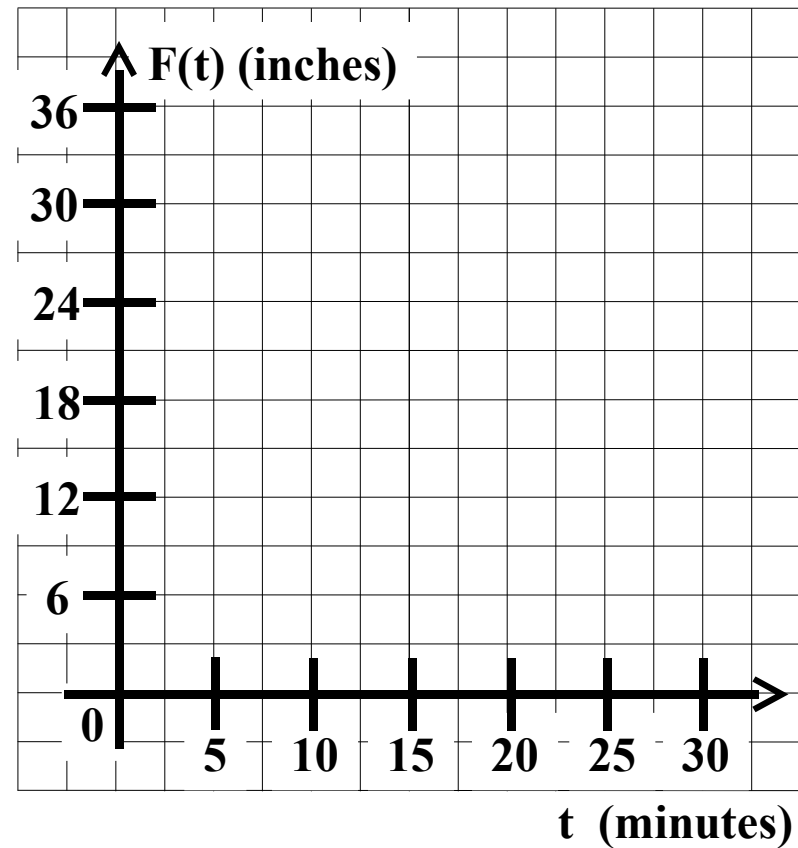
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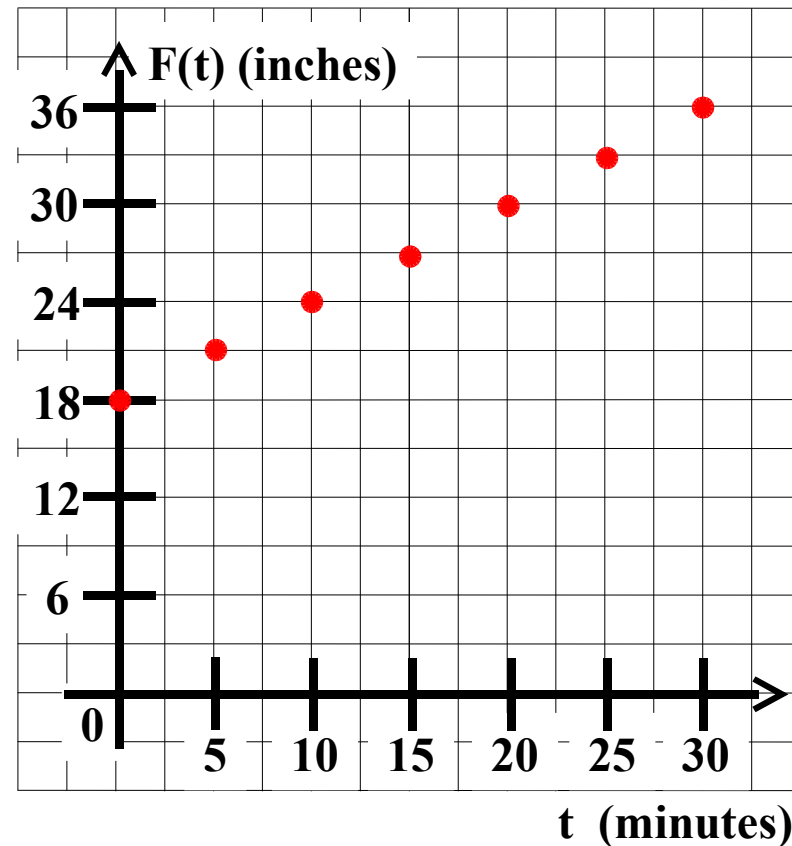
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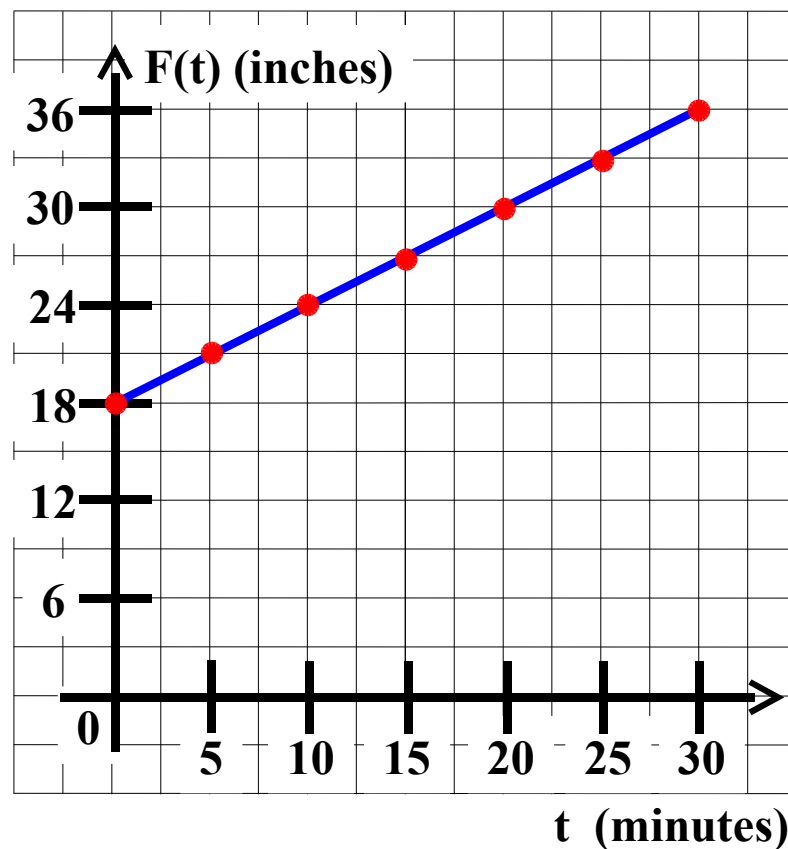
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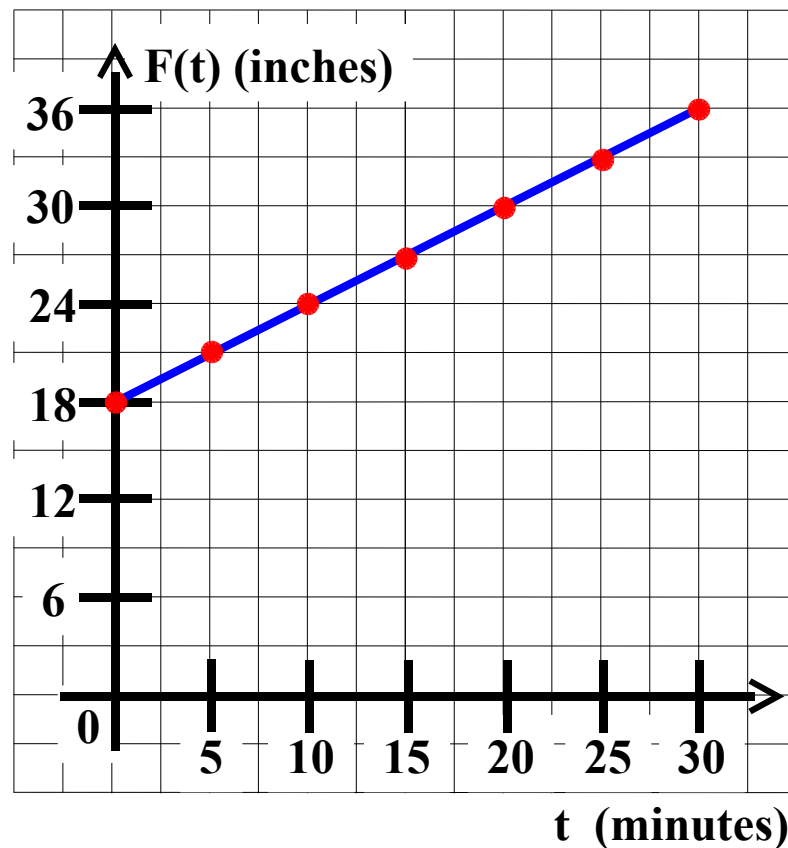
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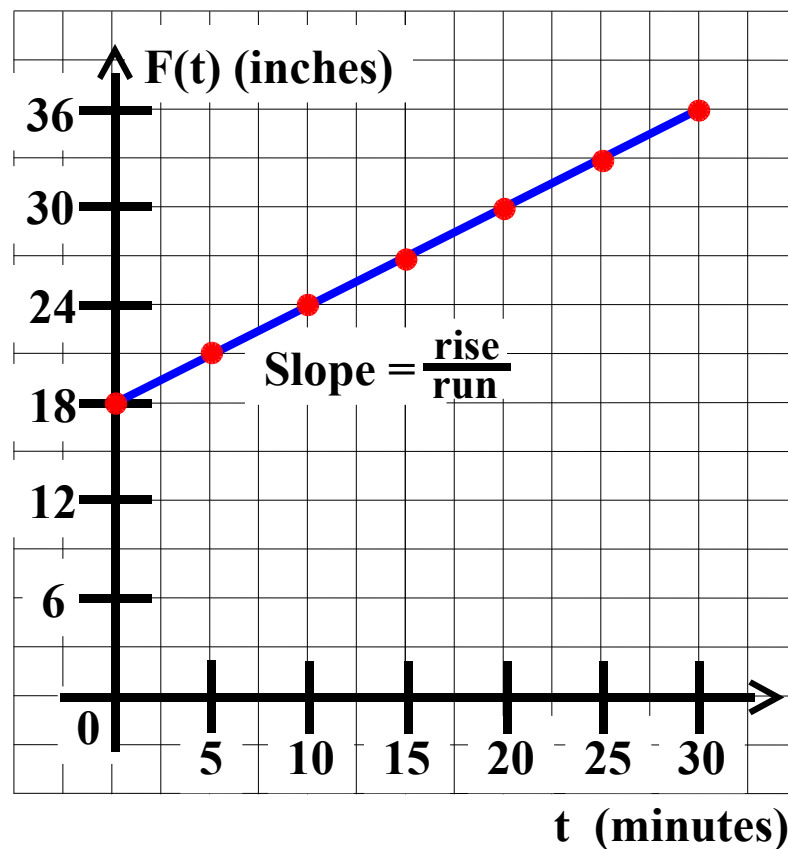
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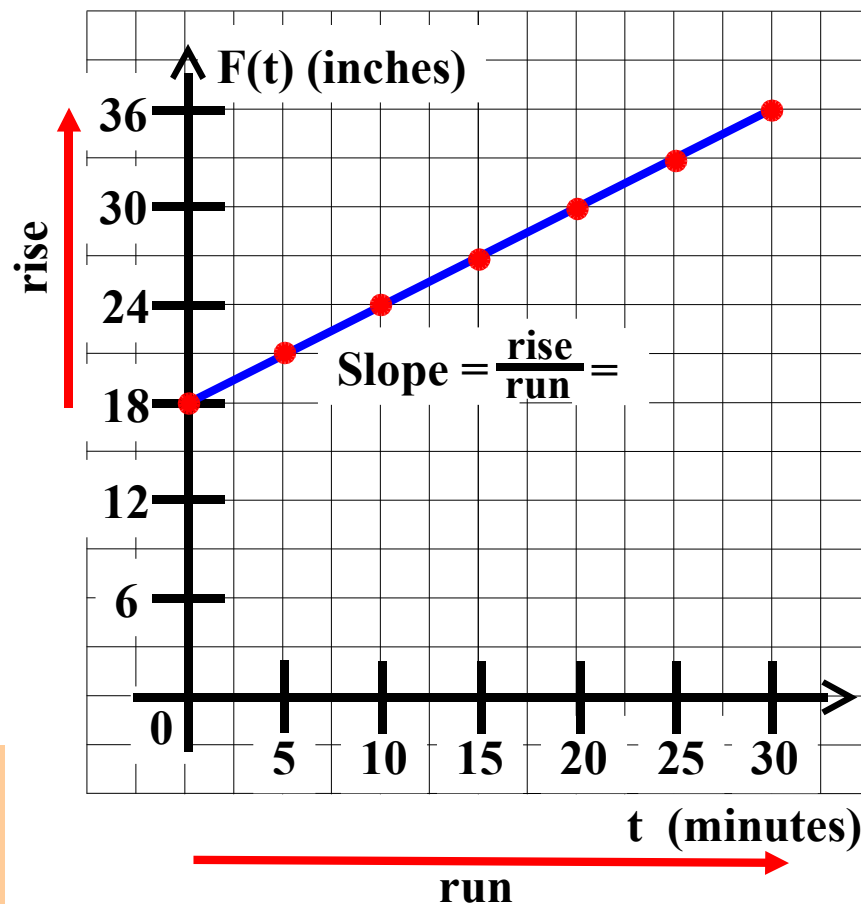
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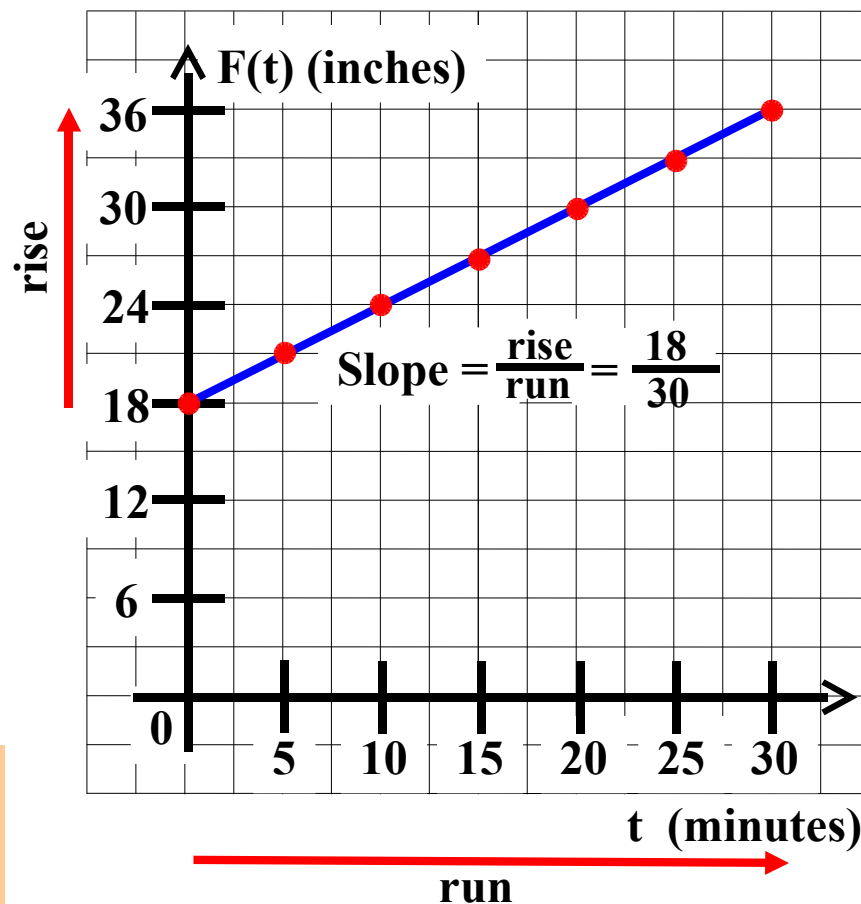
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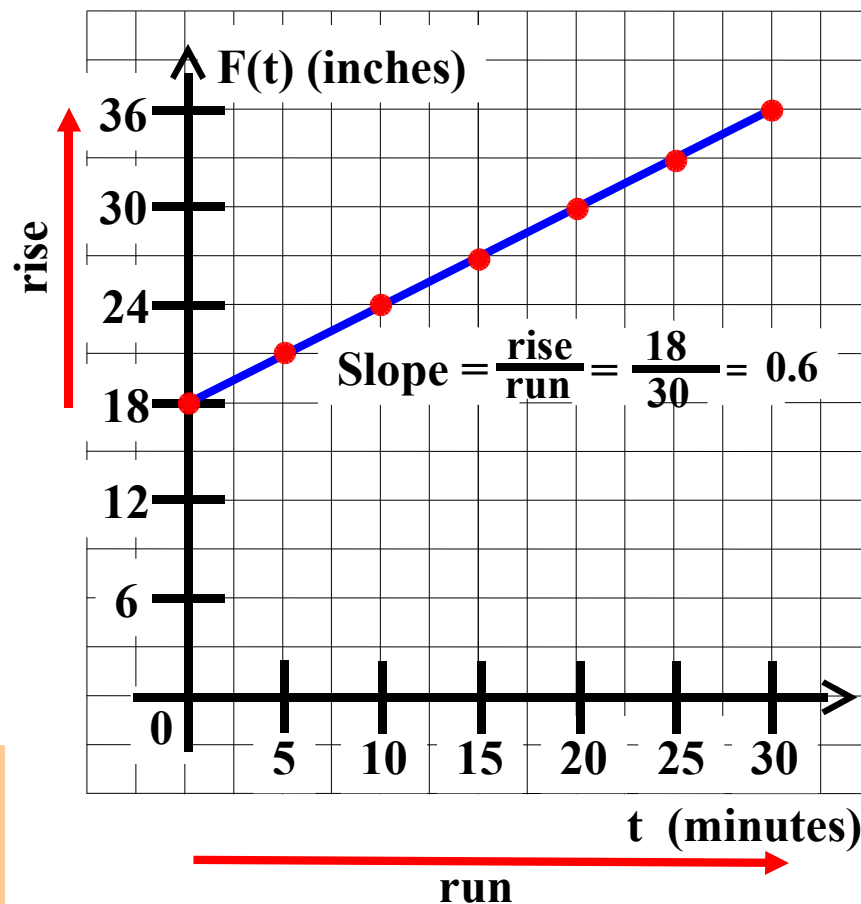
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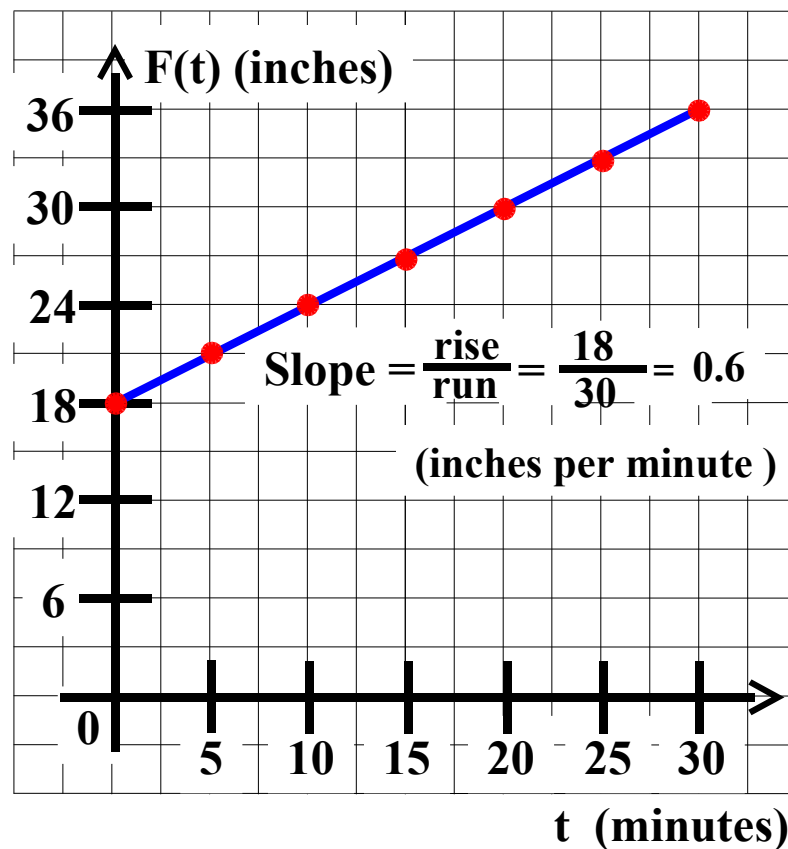
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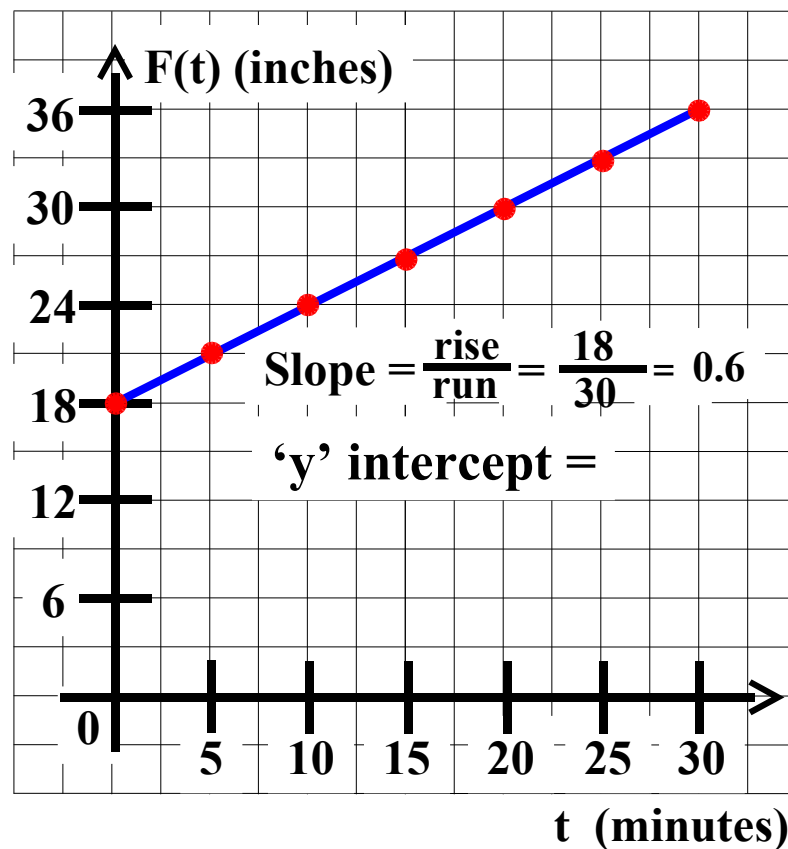
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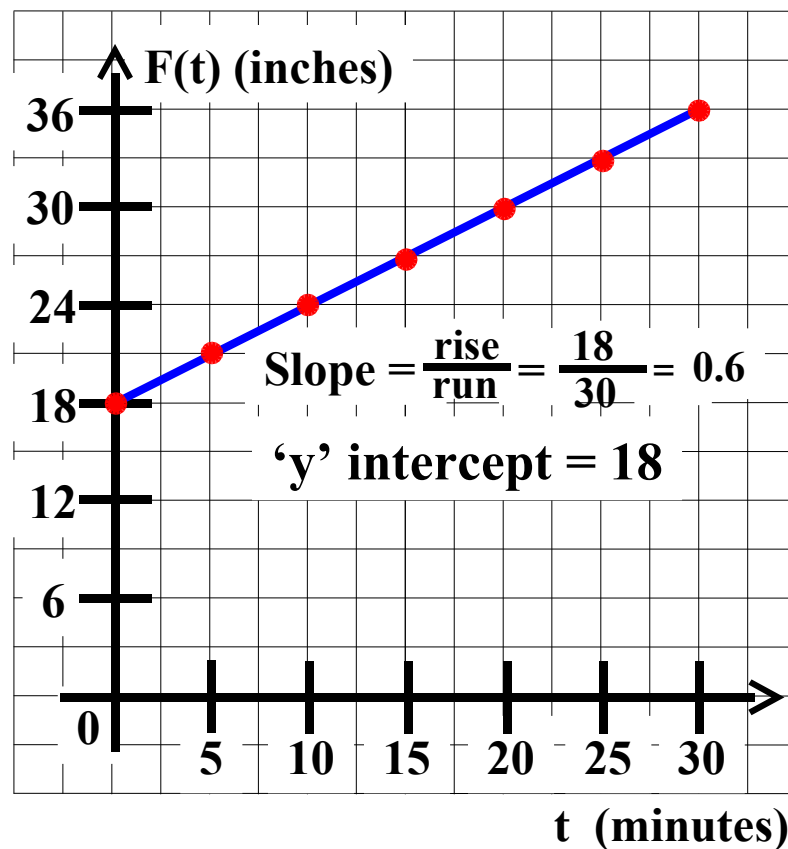
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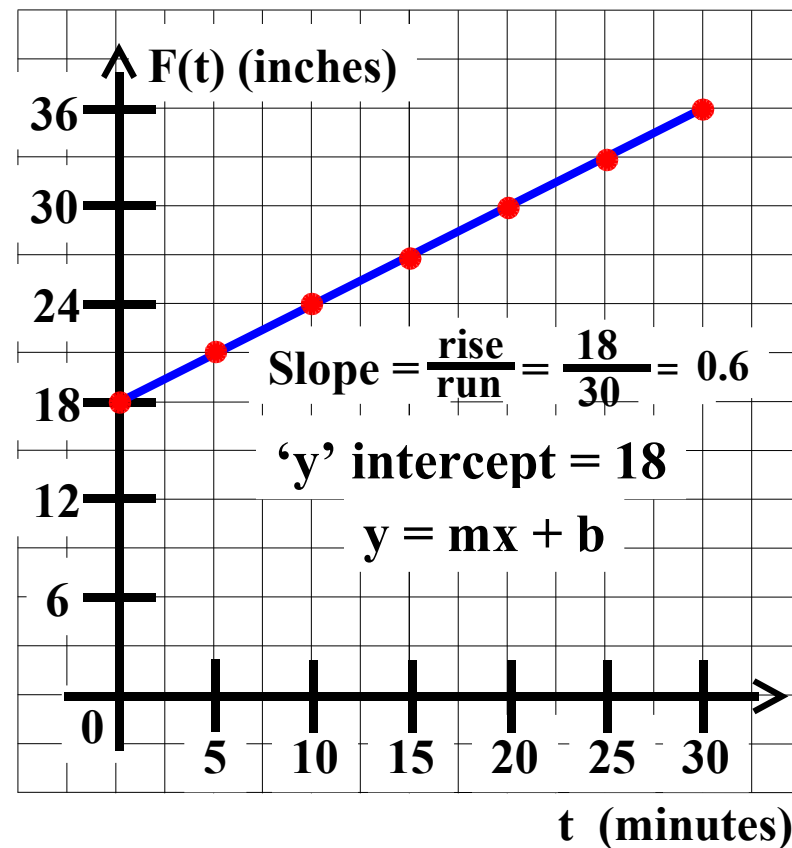
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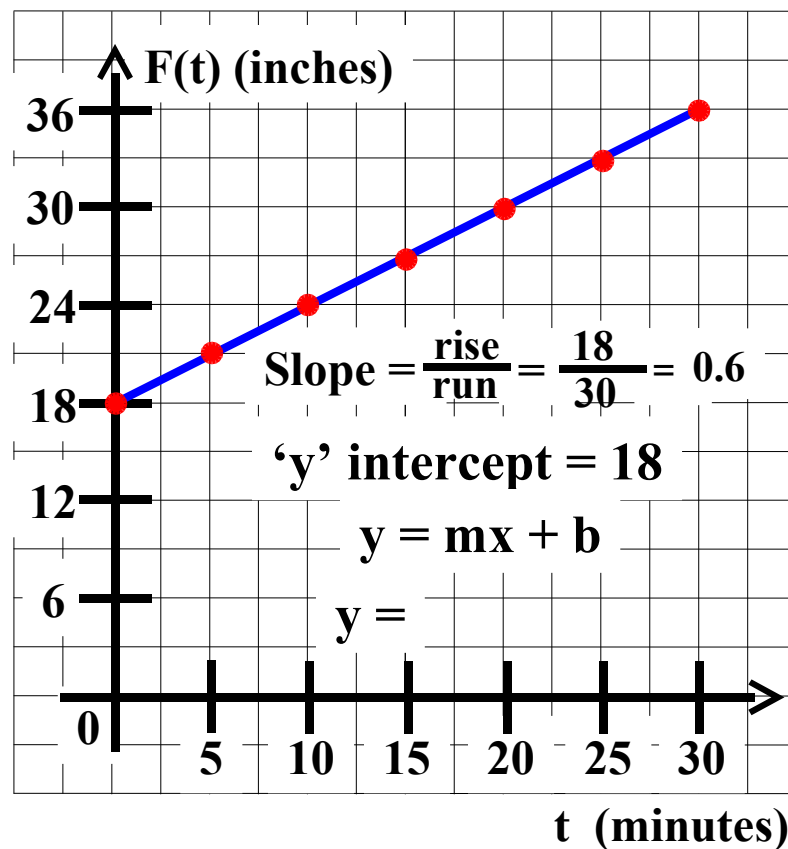
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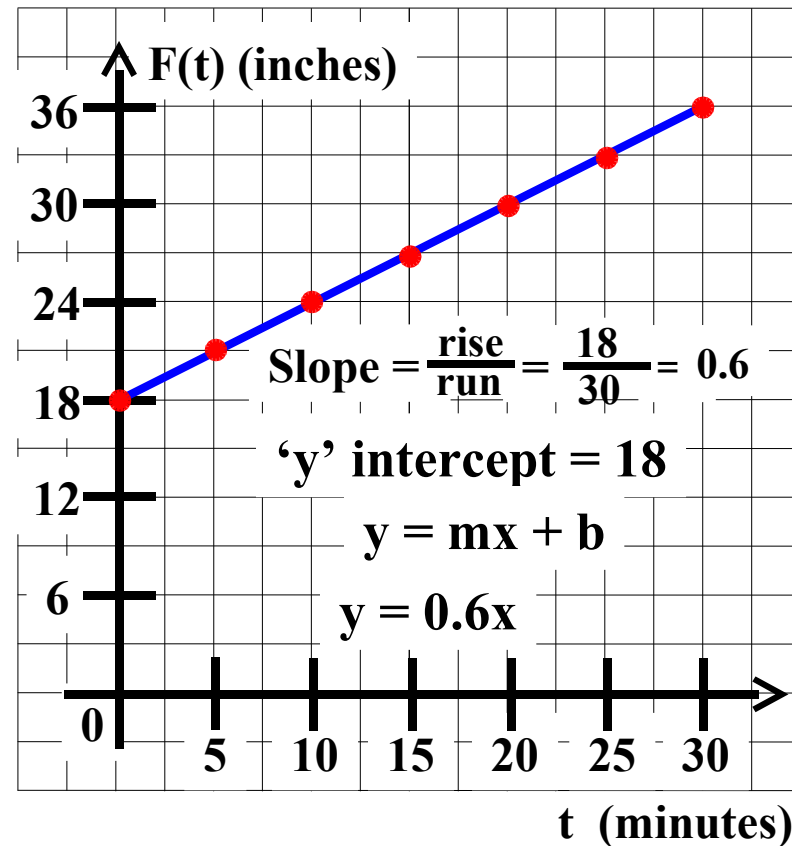
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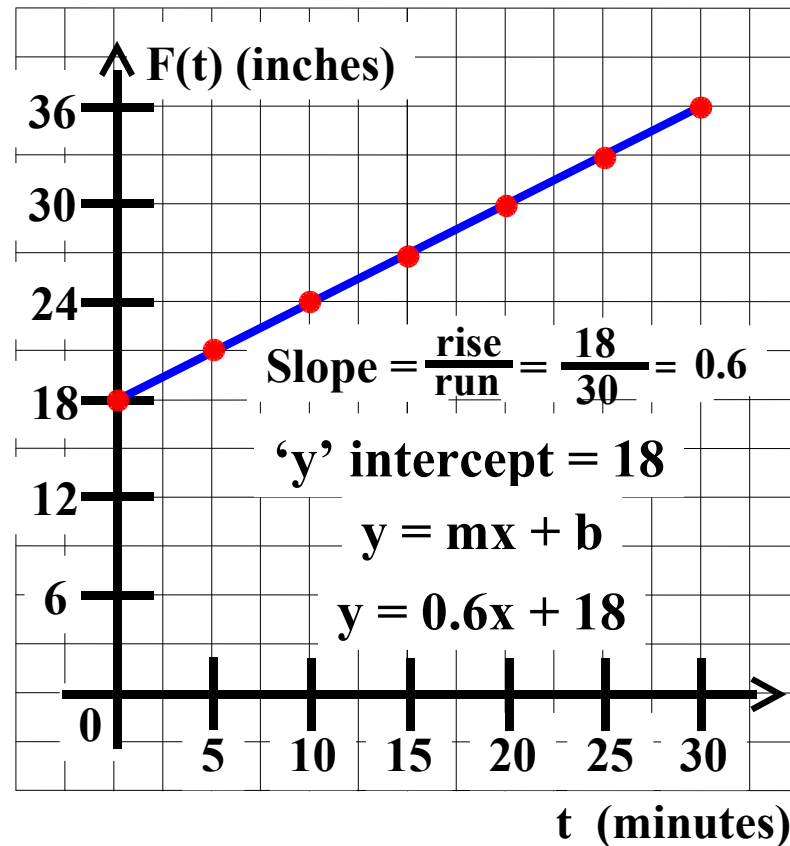
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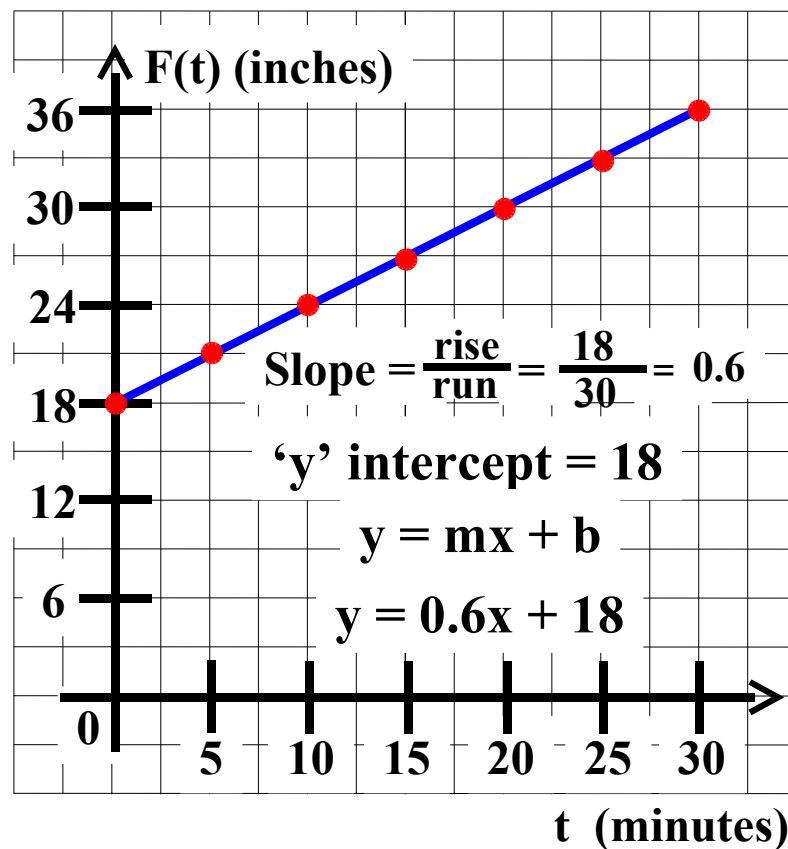
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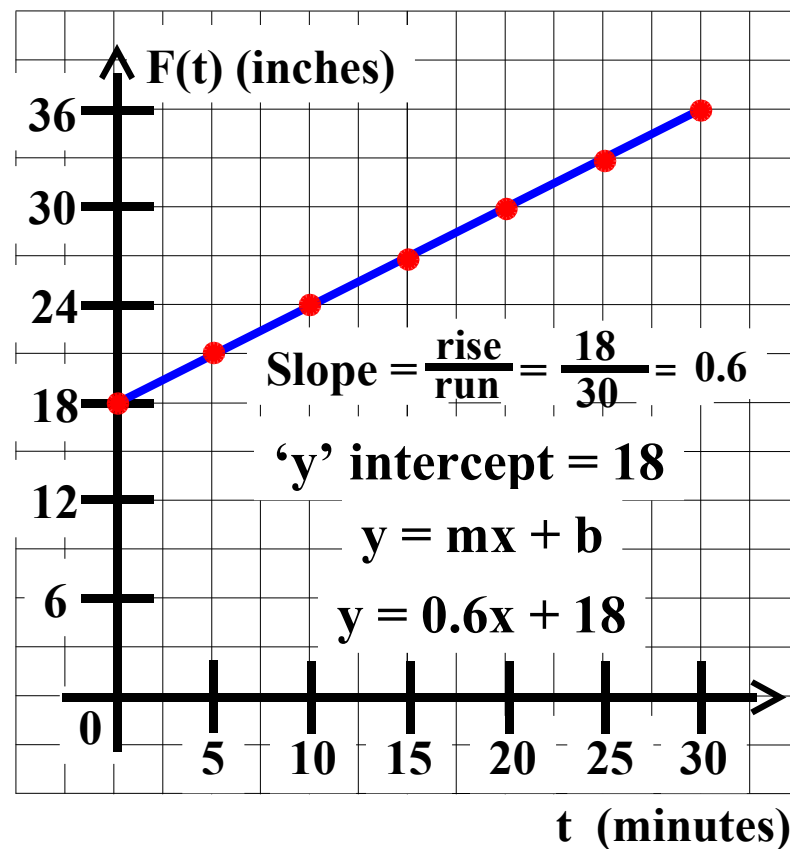
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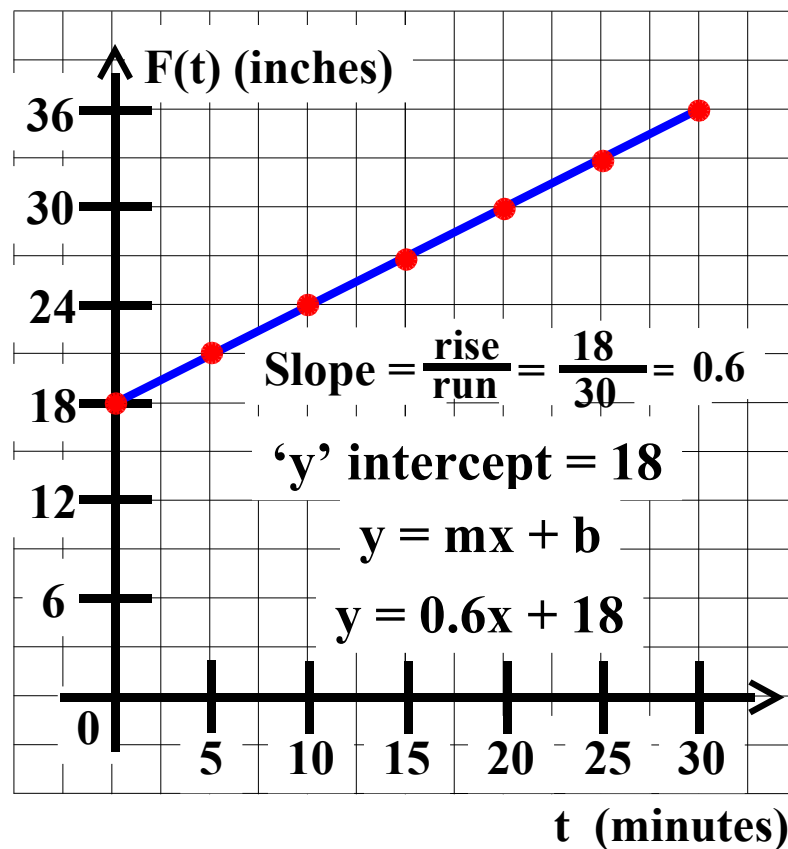
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0	18
5	21
10	24
15	27
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25	33
30	36



20. Write an equation giving $F(t)$ in terms of t . **$F(t) = 0.6t + 18$**

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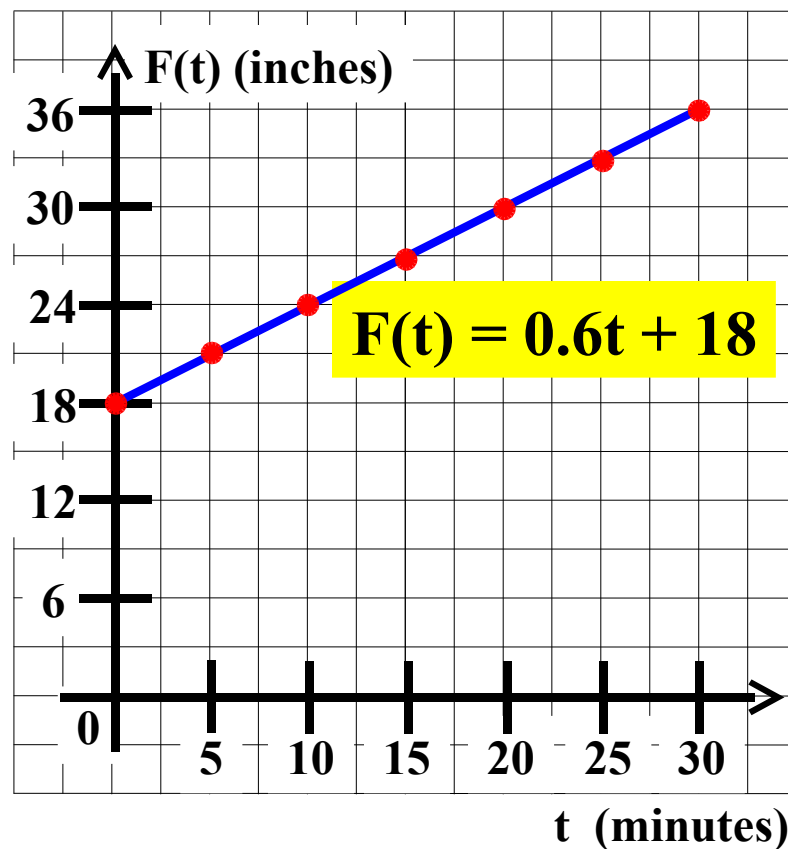
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19. Graph function F .

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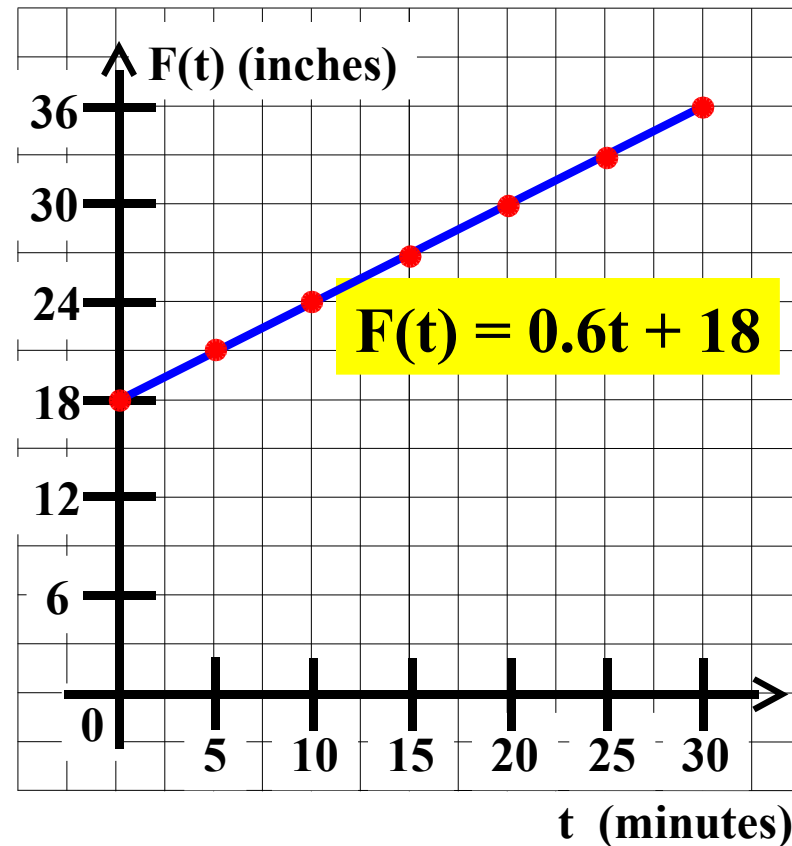
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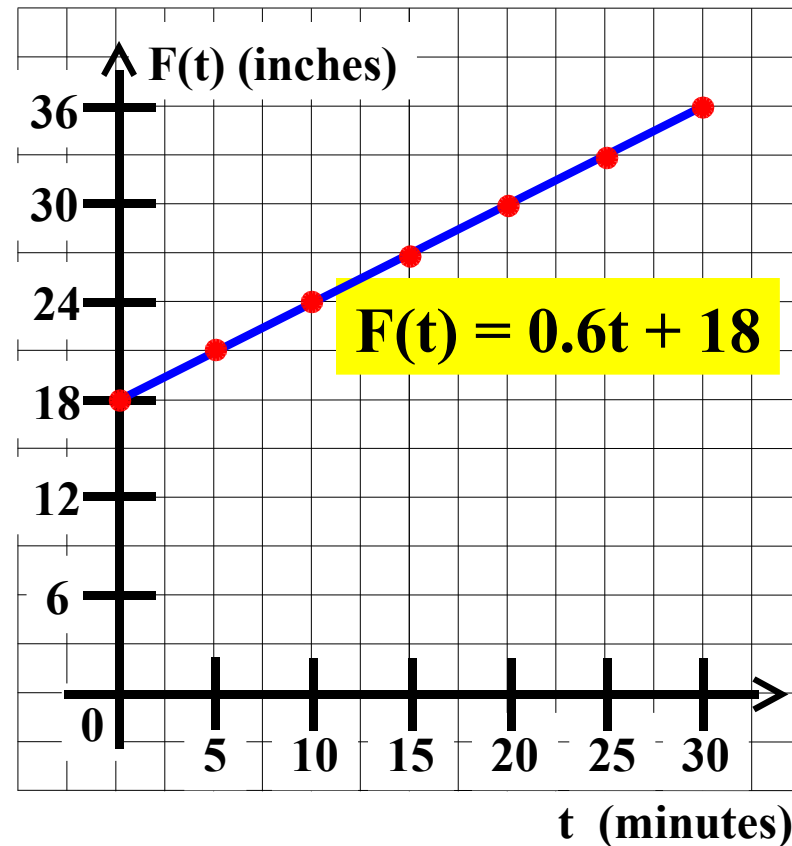
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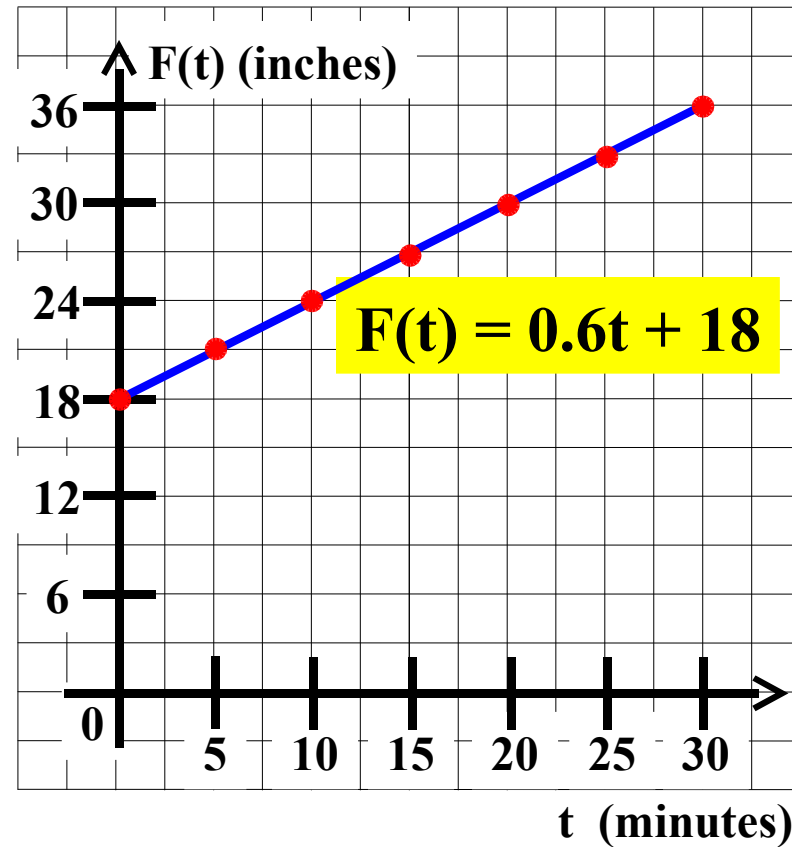
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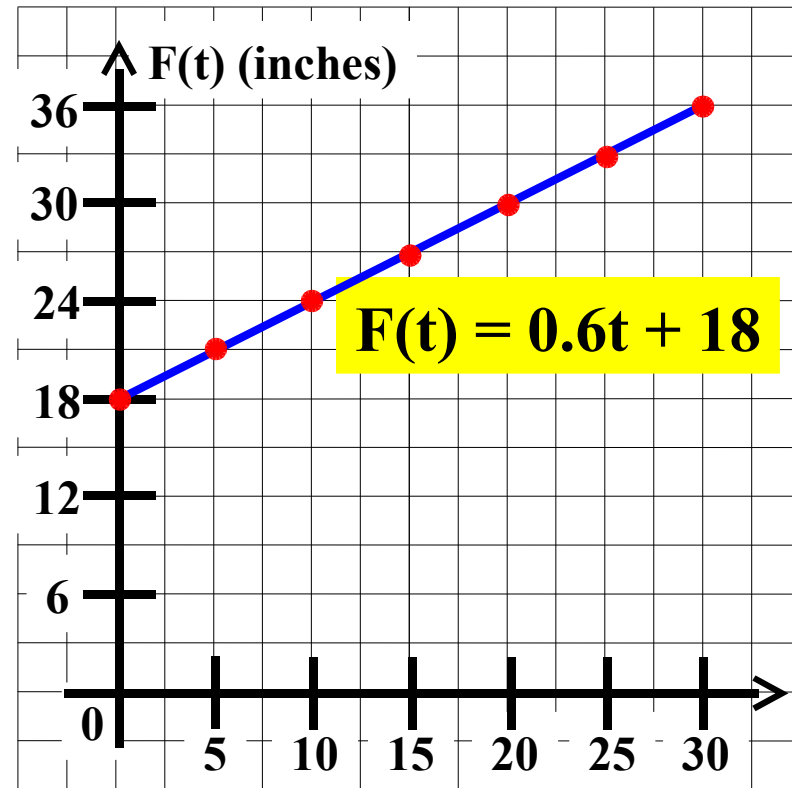
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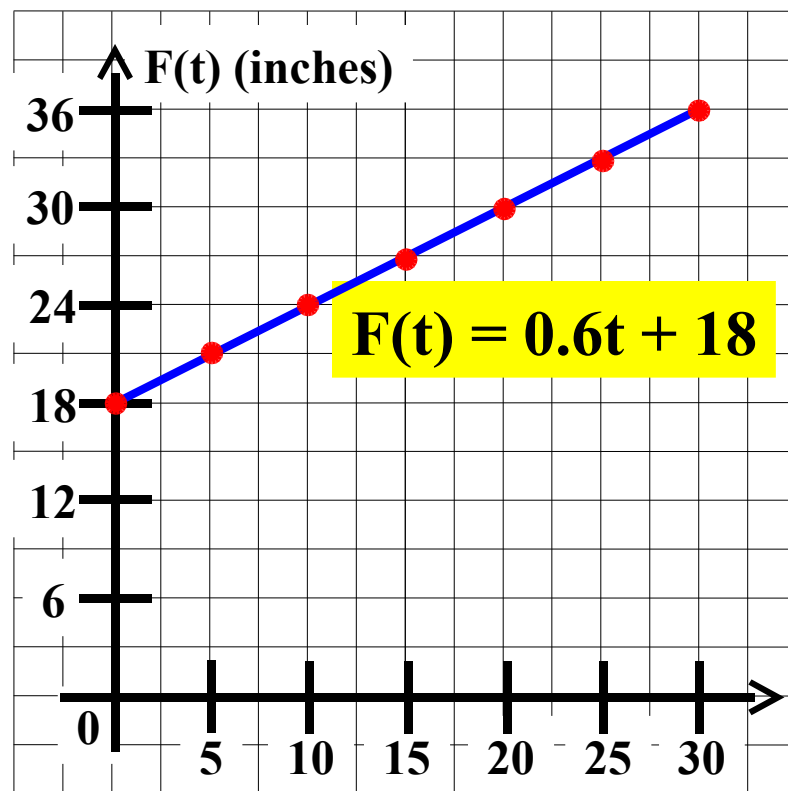
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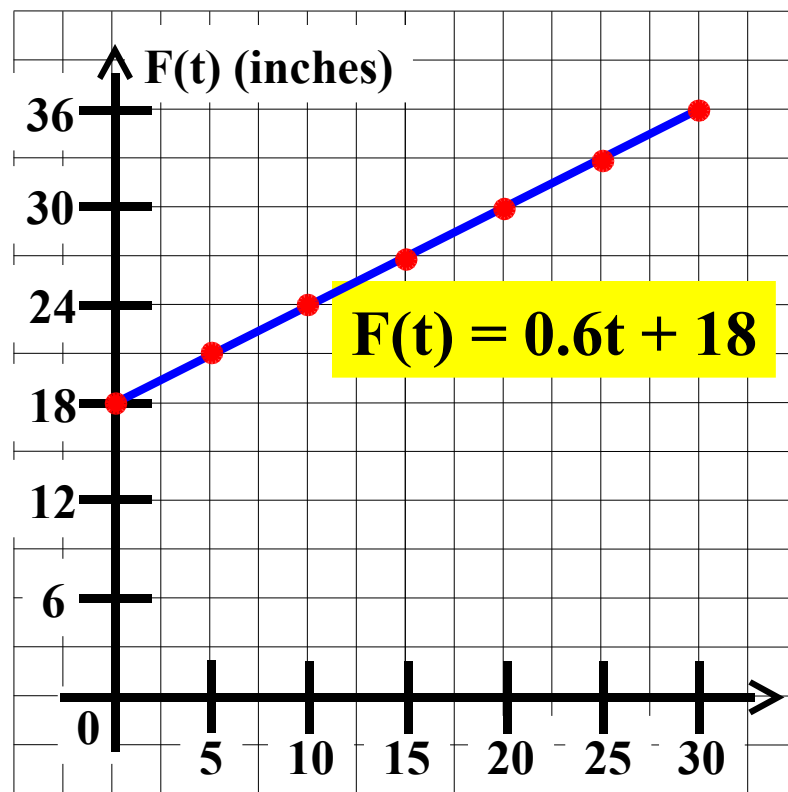
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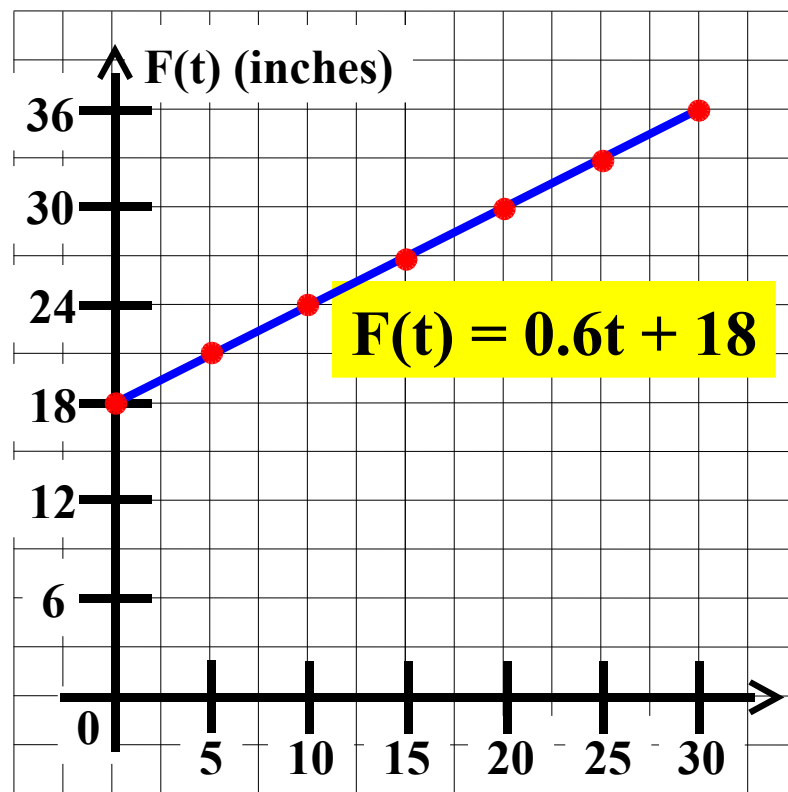
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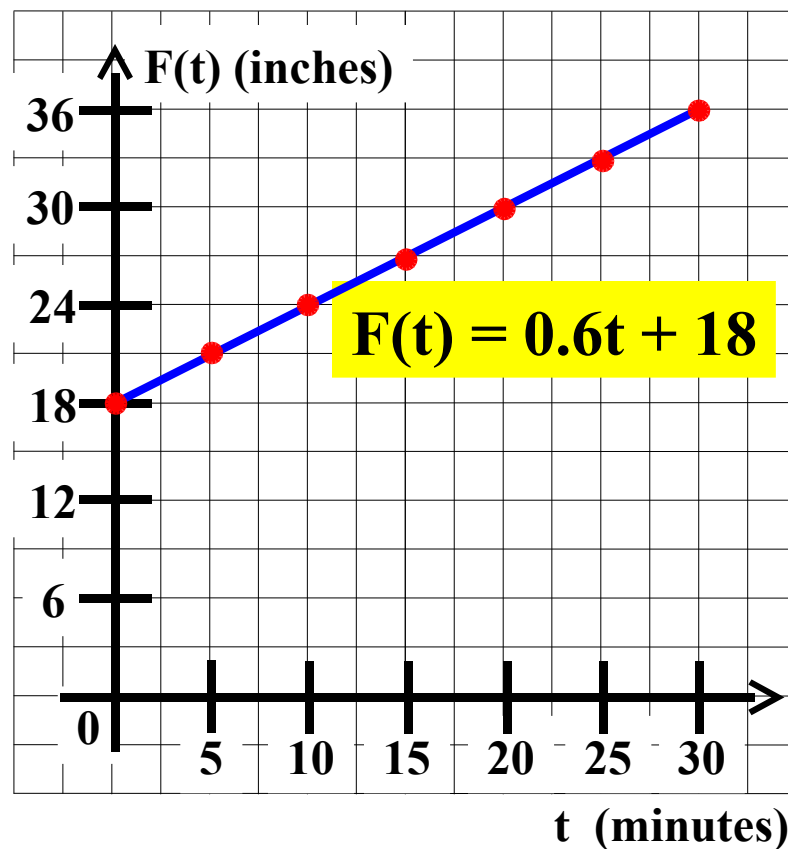
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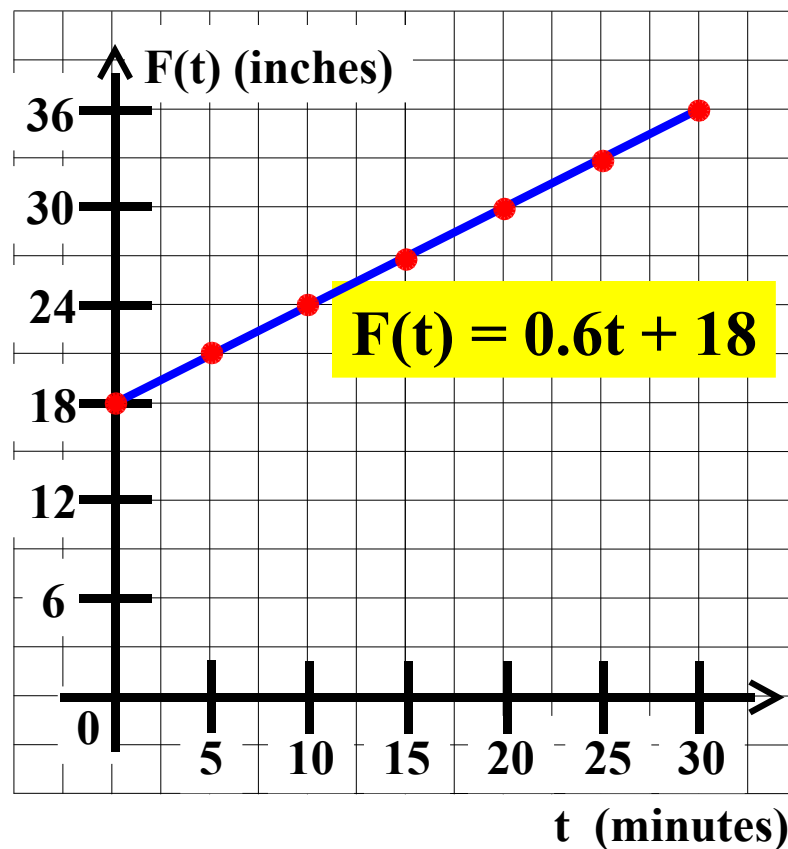
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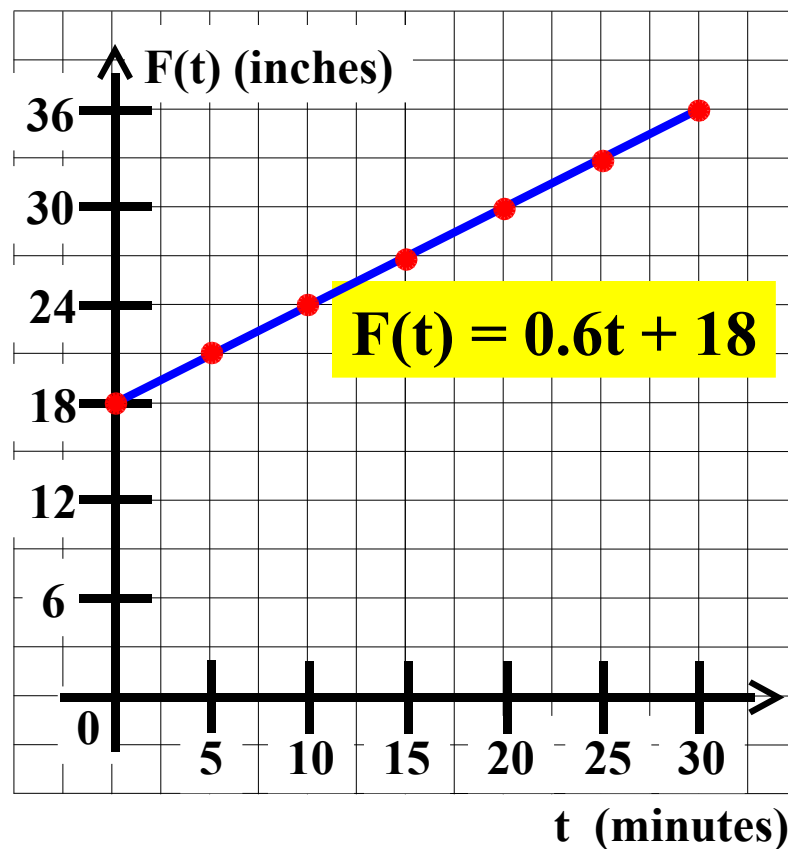
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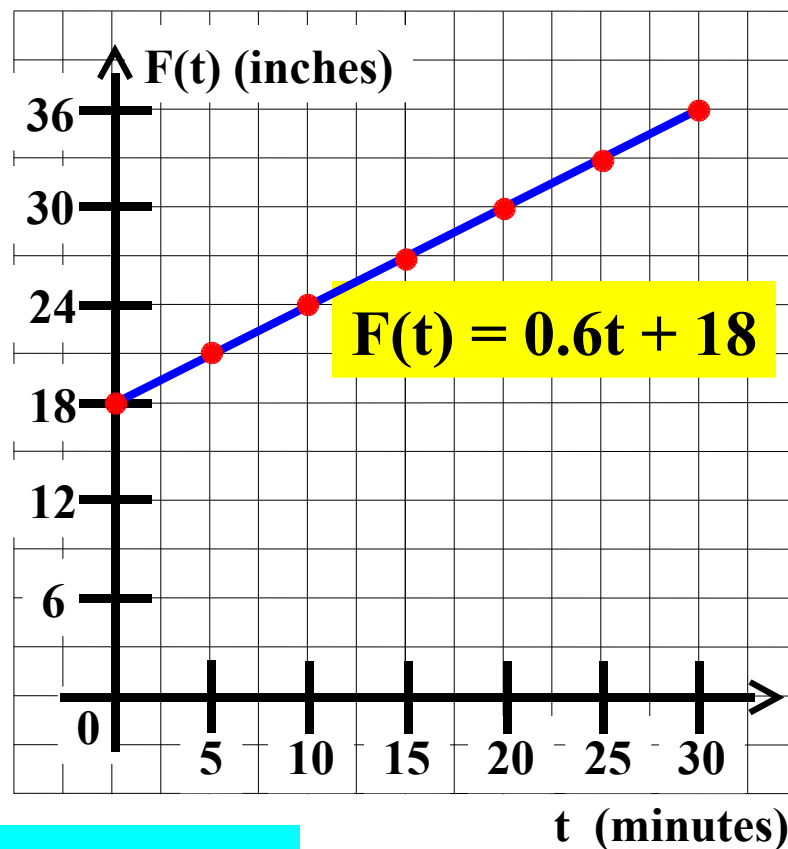
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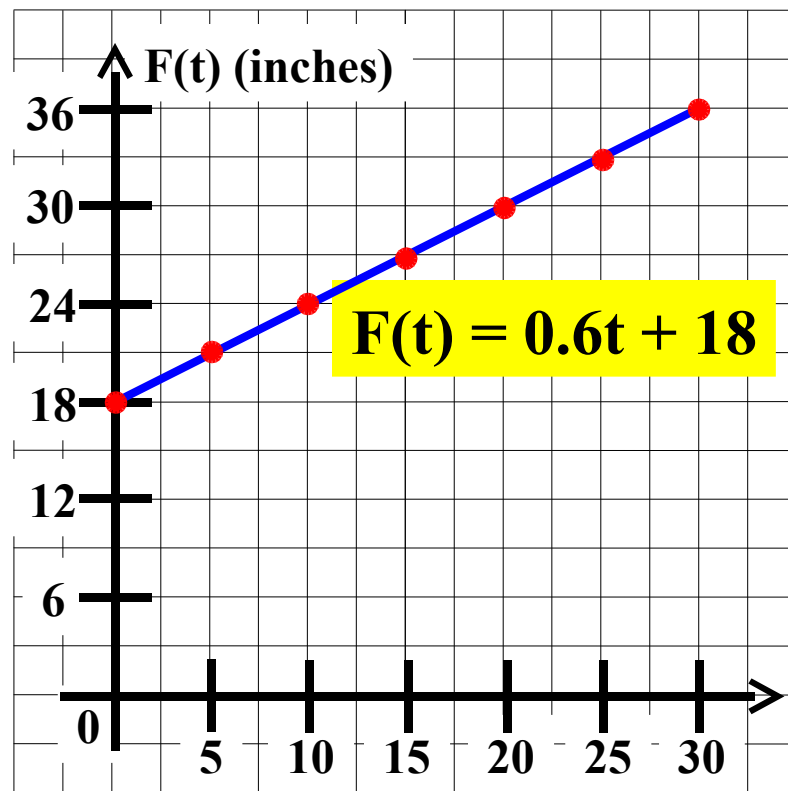
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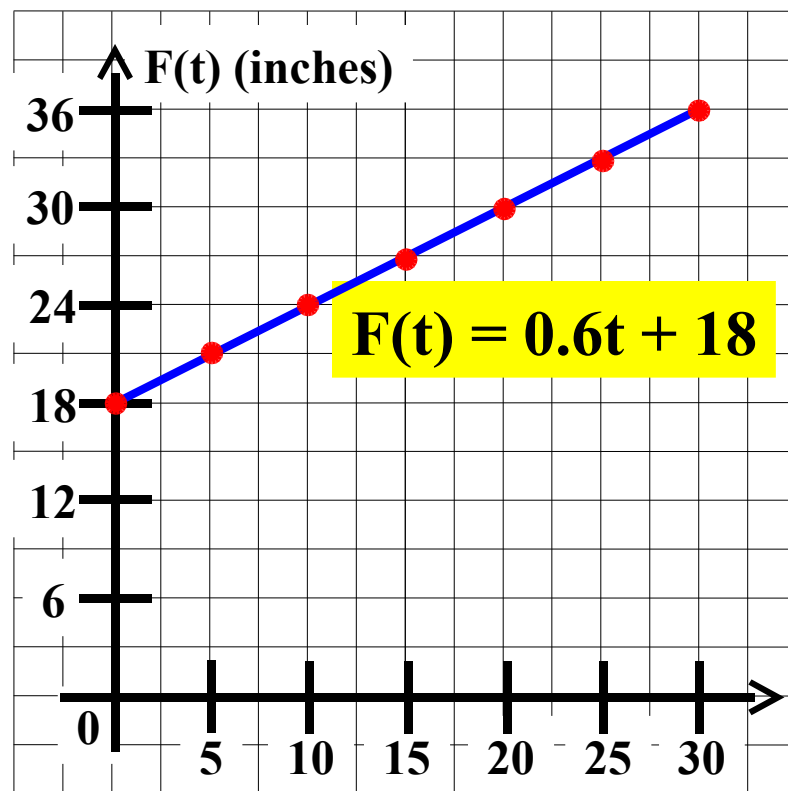
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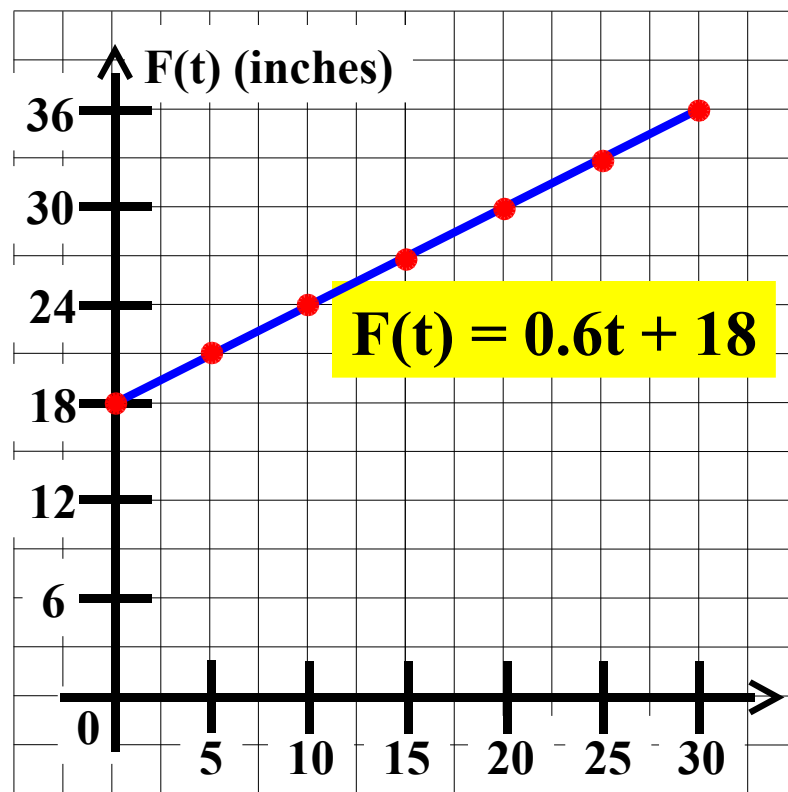
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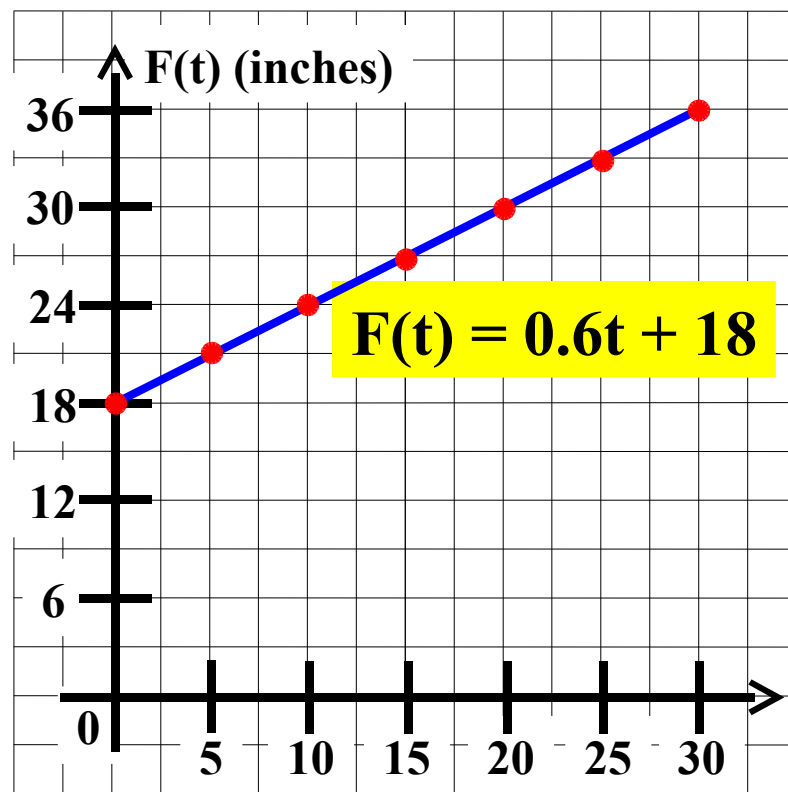
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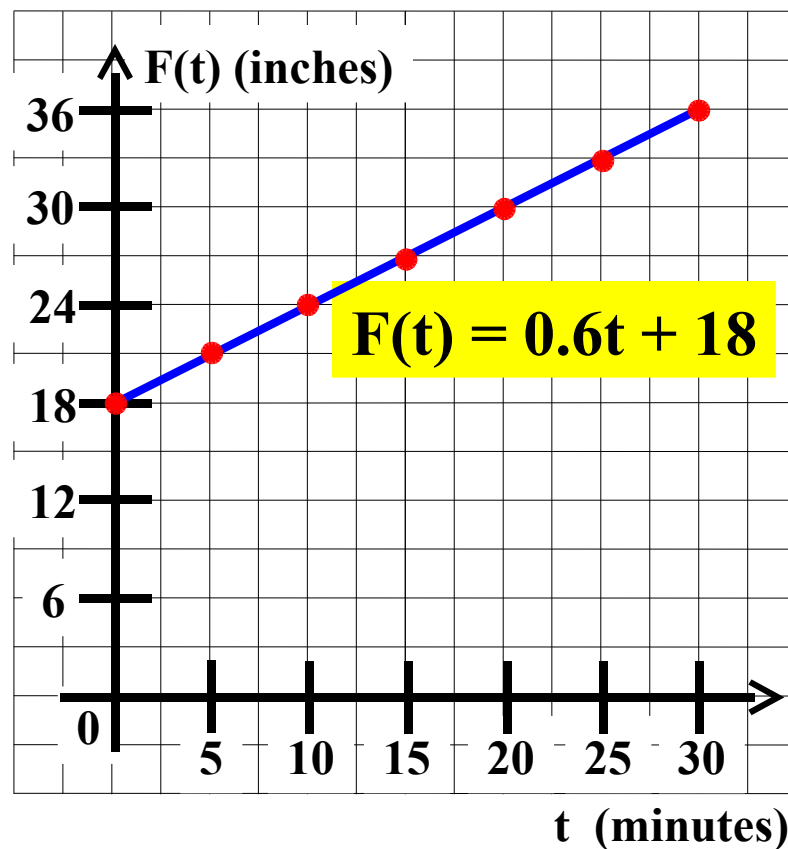
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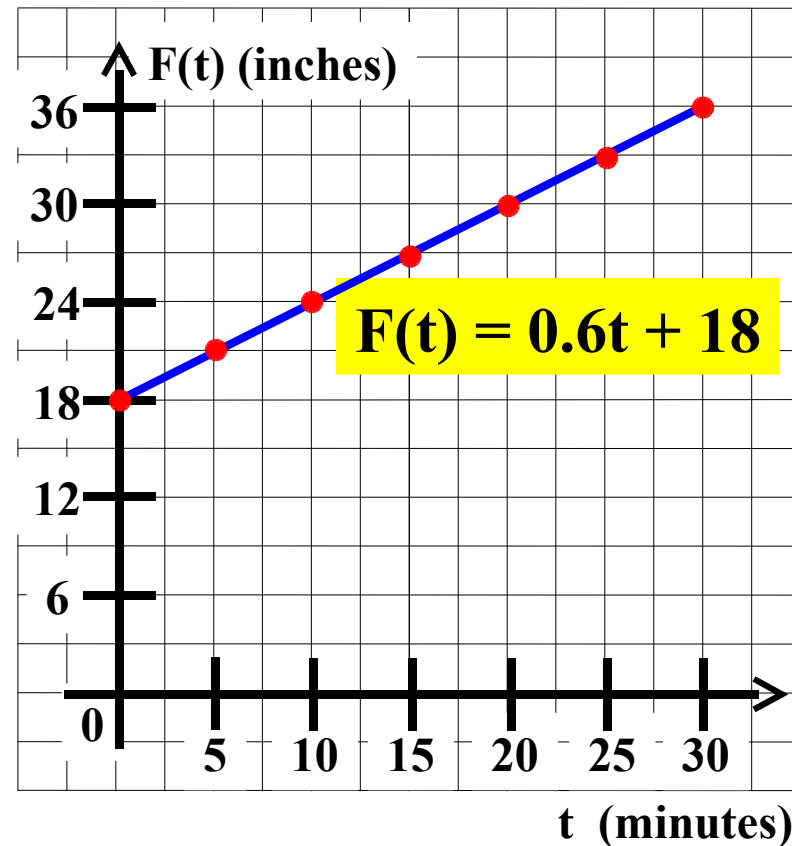
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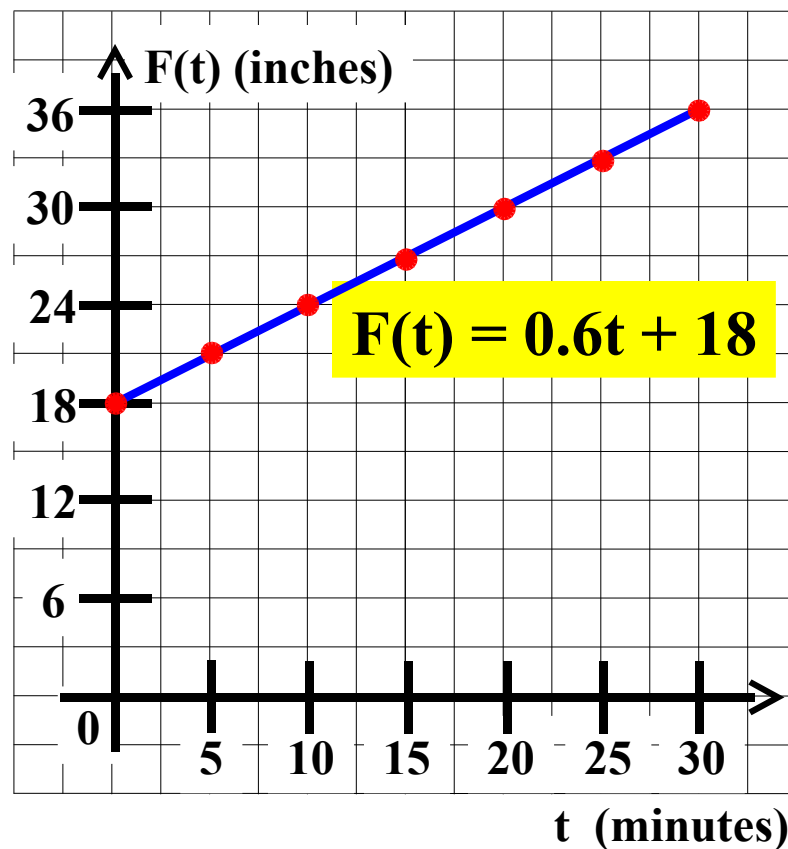
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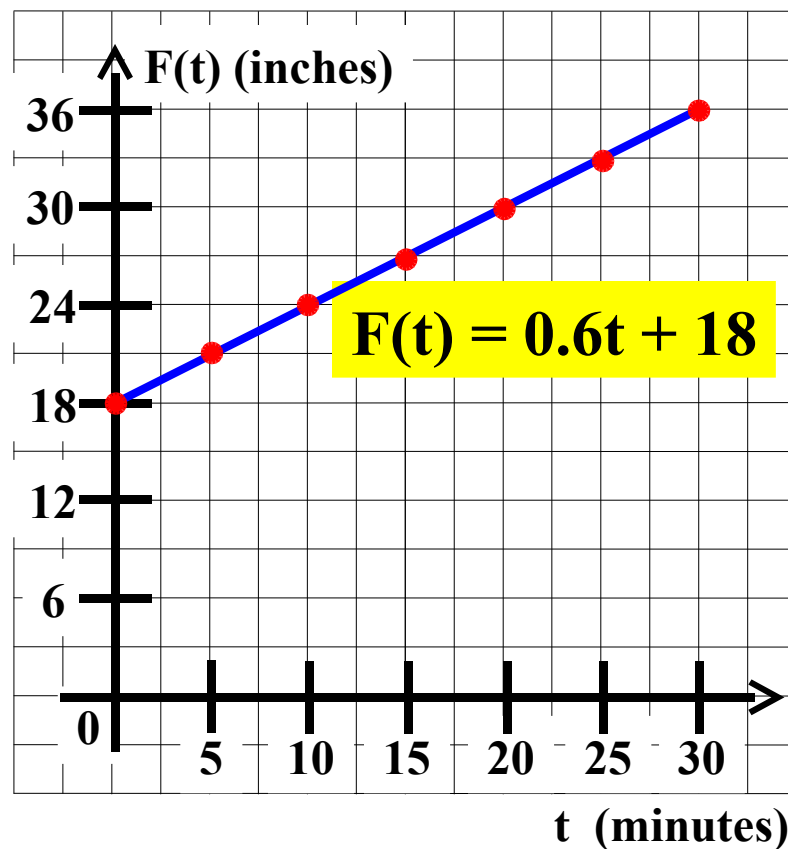
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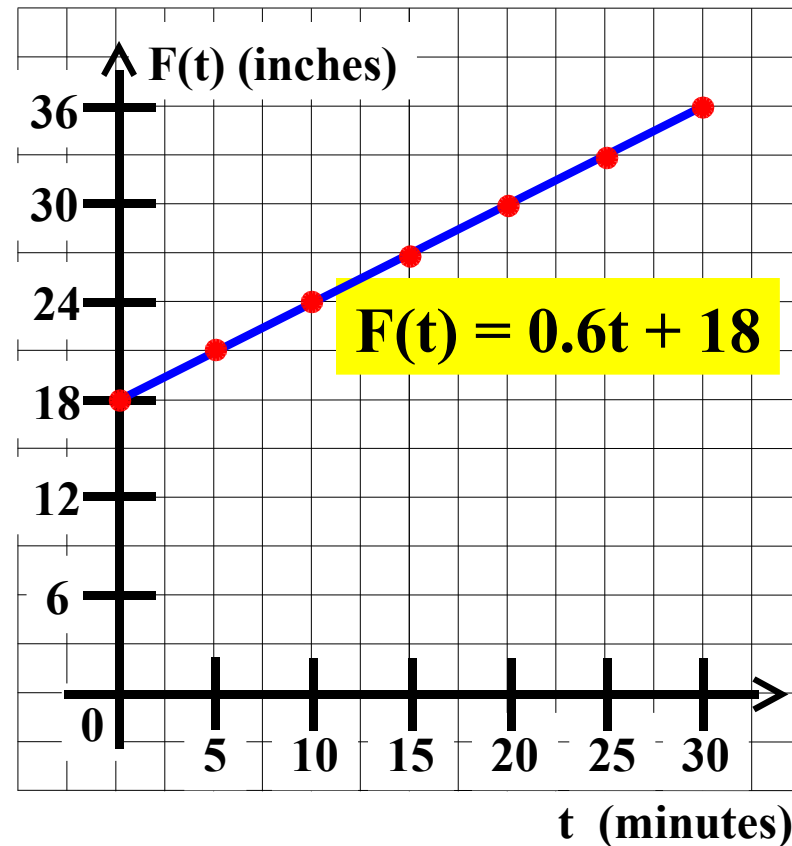
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0	18	$[0, 30]$
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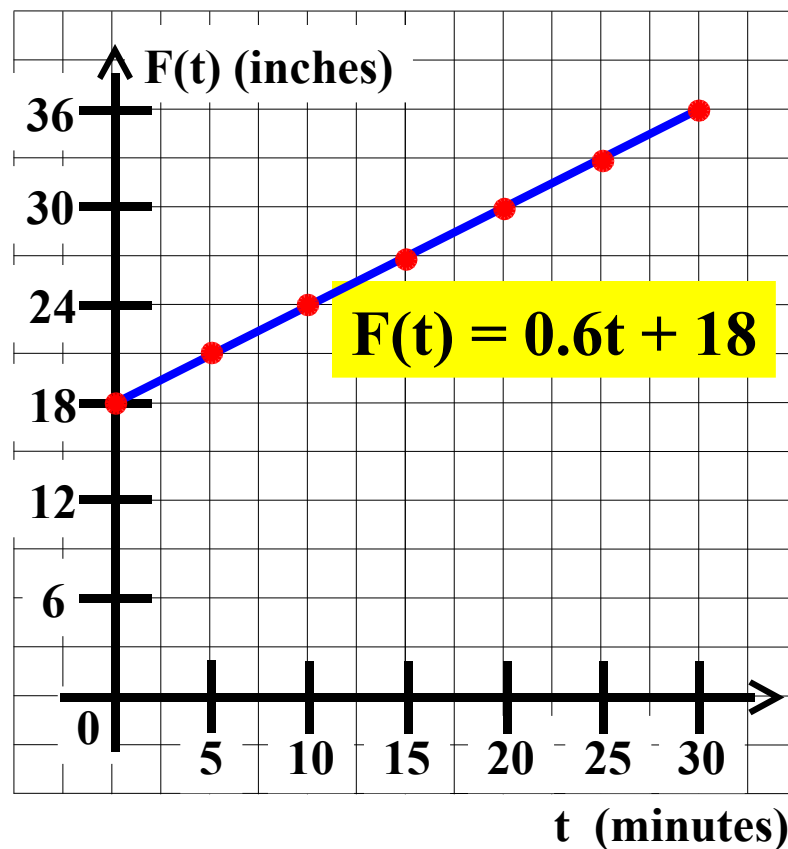
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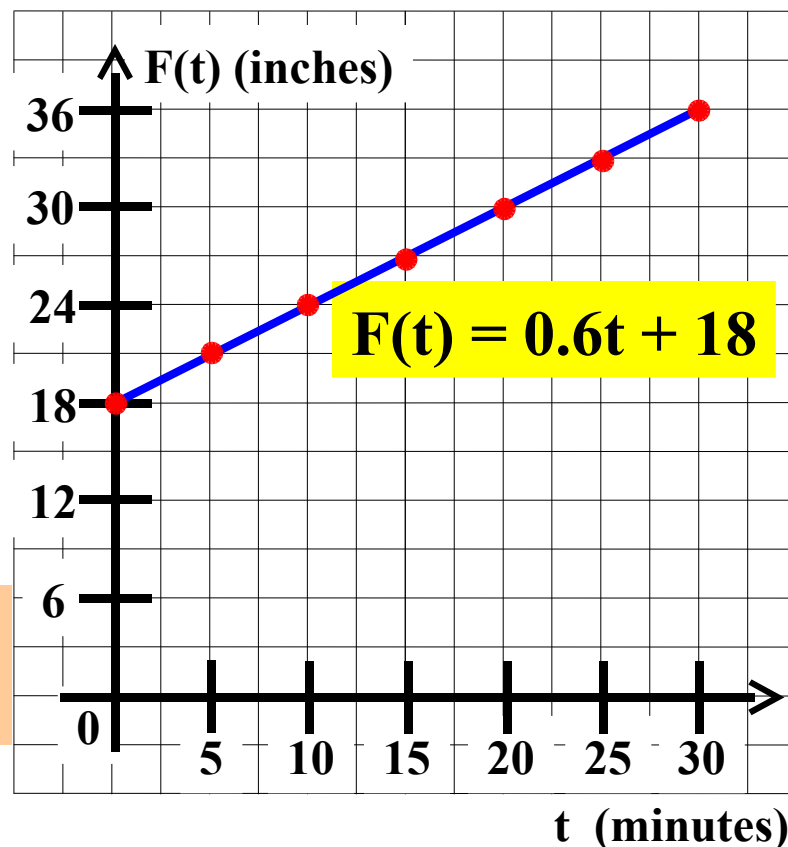
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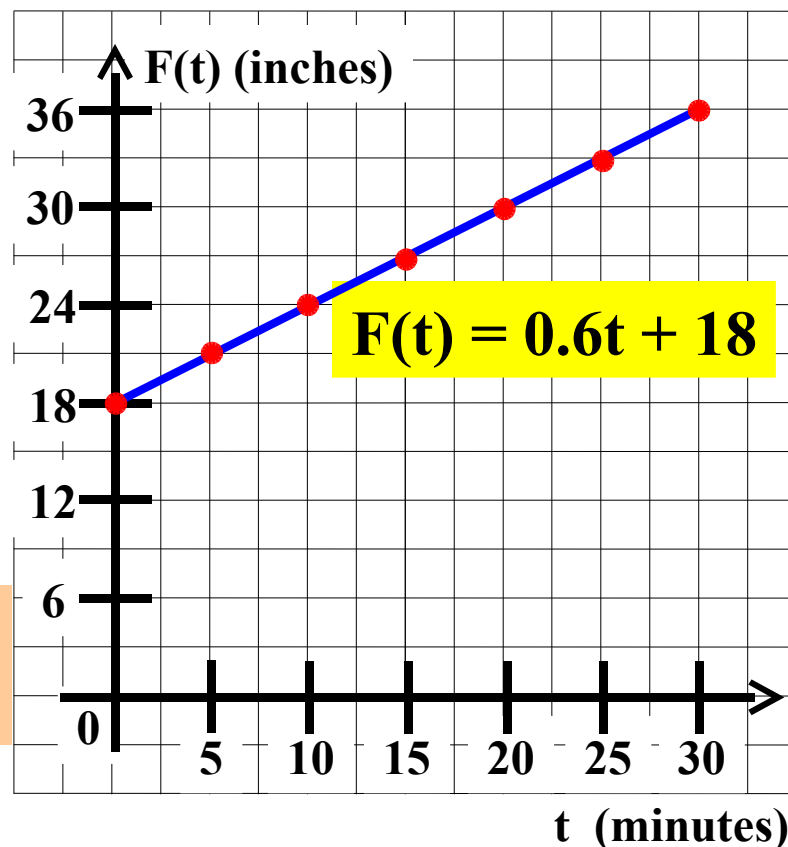
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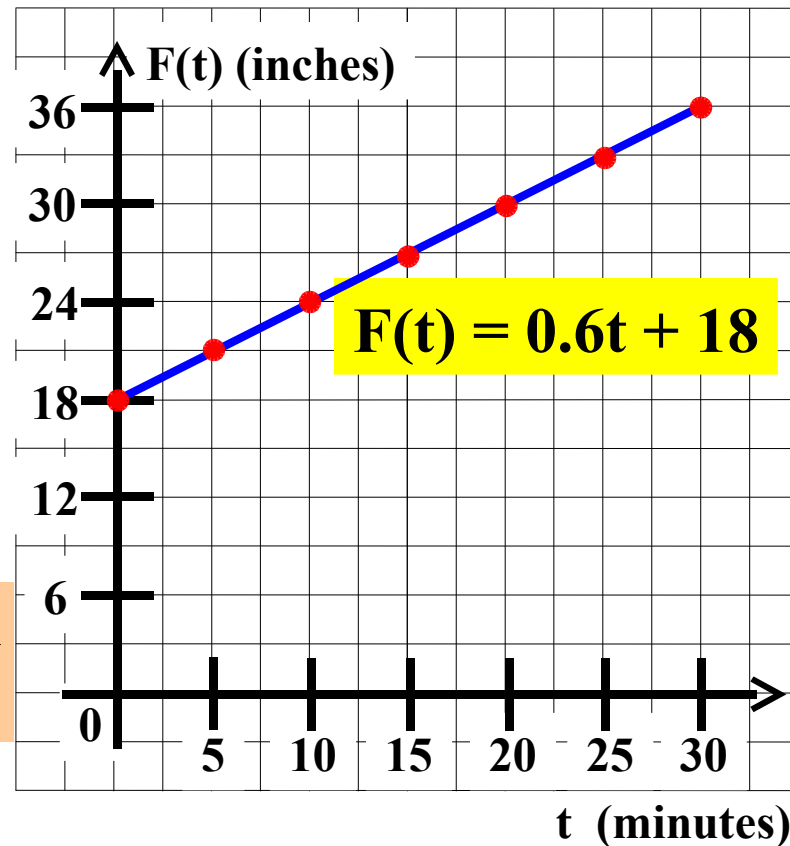
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18. Make a table giving t and $F(t)$ every 5 minutes from $t = 0$ until the tank is full.

t	$F(t)$
0	18
5	21
10	24
15	27
20	30
25	33
30	36

domain

$[0, 30]$

range

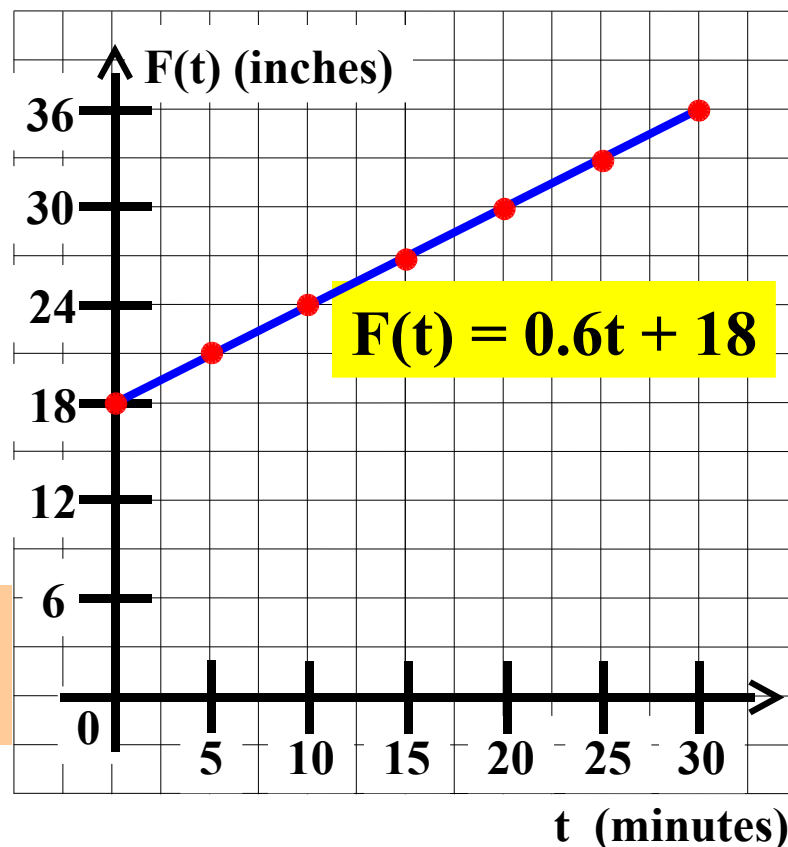
$[18, 36]$

23. Evaluate $F(10)$.

What does $F(10)$ represent in terms of the problem?

$$F(10) = 24$$

$F(10)$ represents the depth of the water after 10 minutes.



Algebra II Class Worksheet #5 Unit 3

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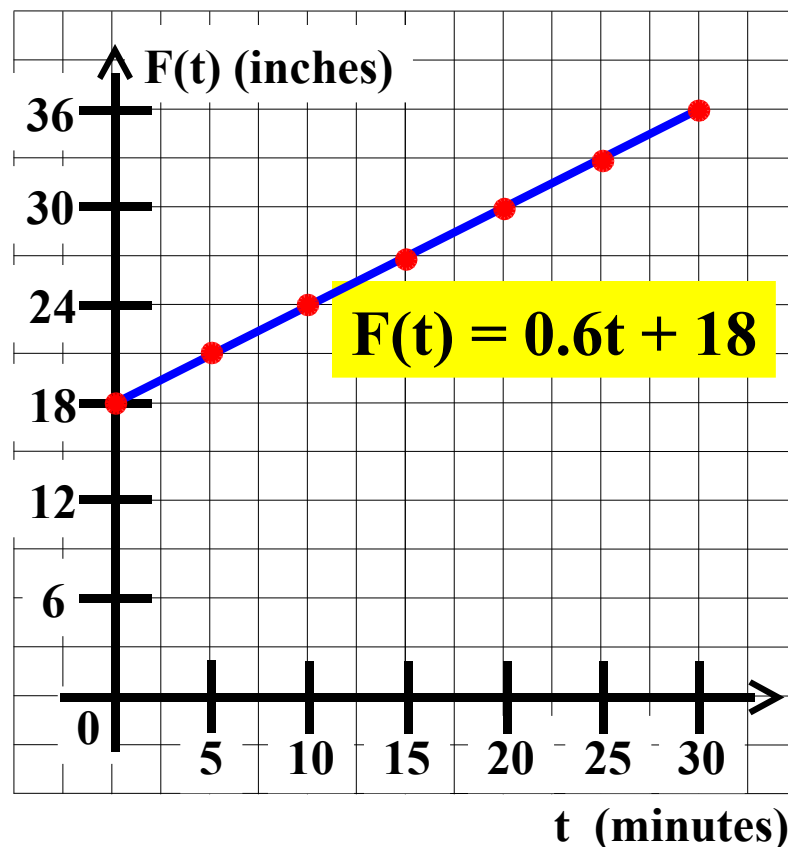
$[18, 36]$

23. Evaluate $F(10)$.

What does $F(10)$ represent in terms of the problem?

$F(10) = 24$ inches

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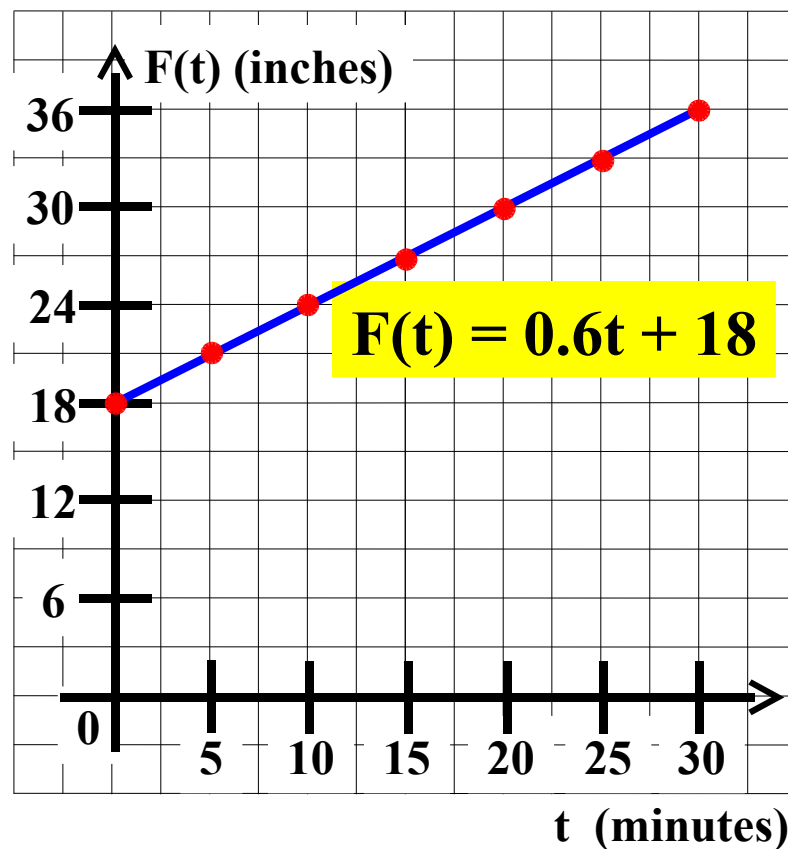
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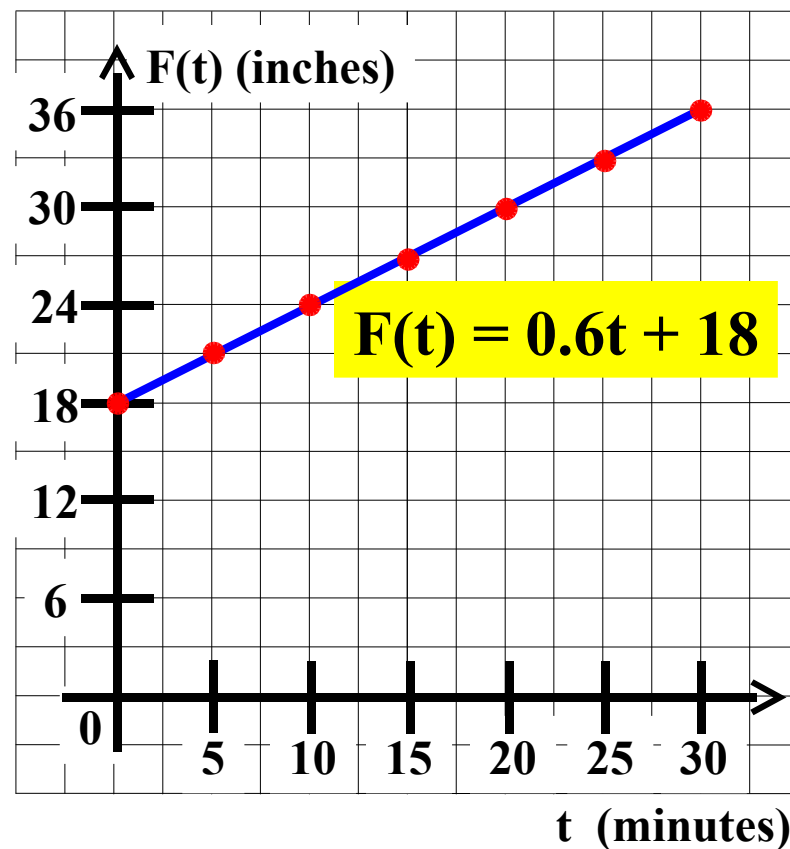
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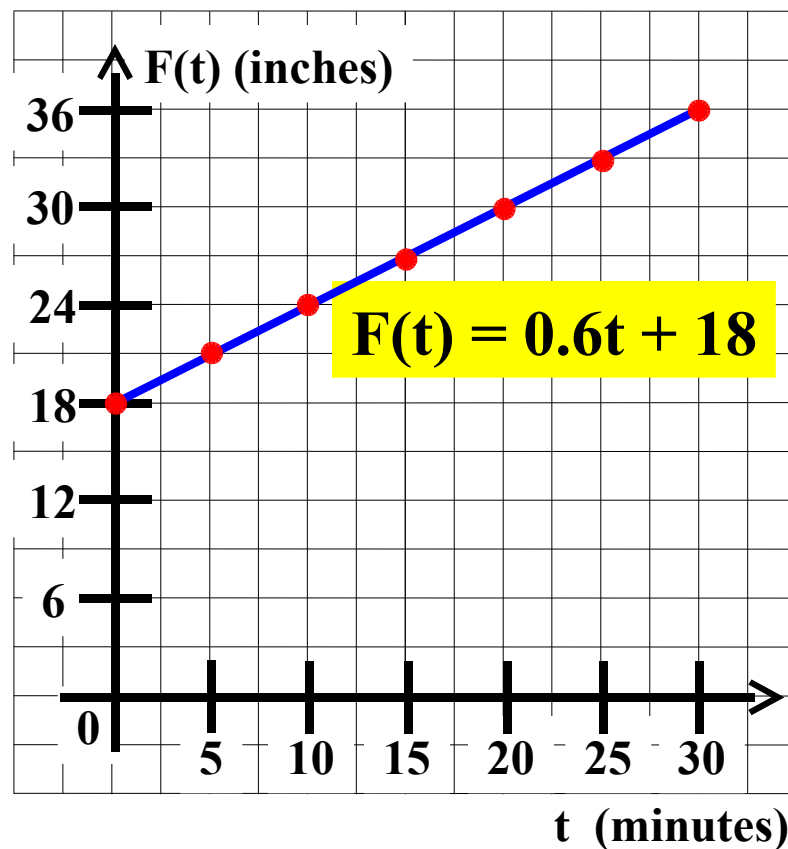
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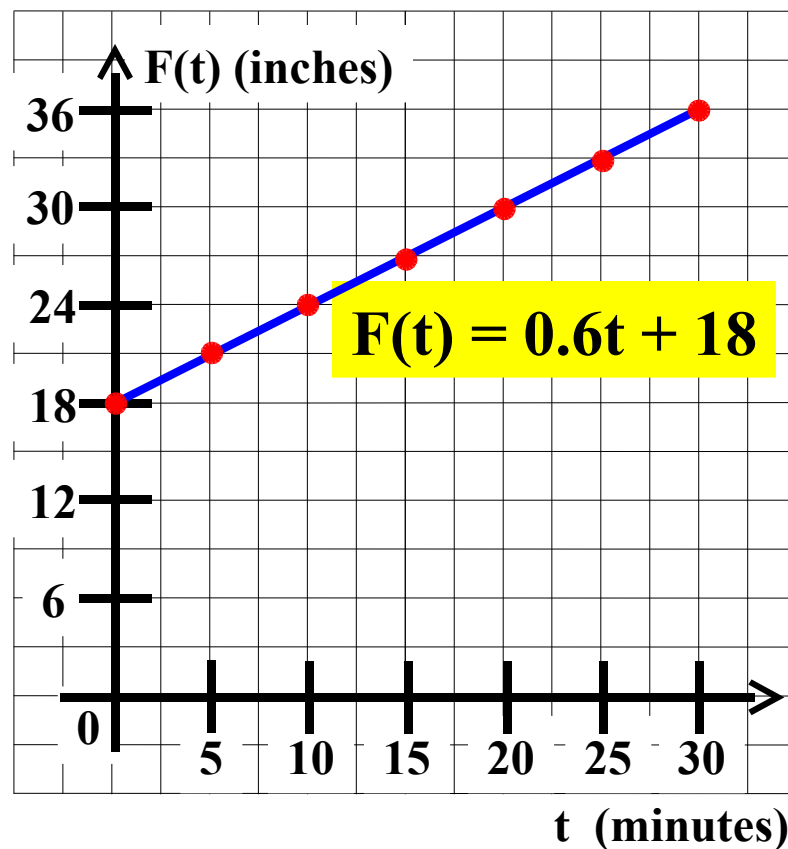
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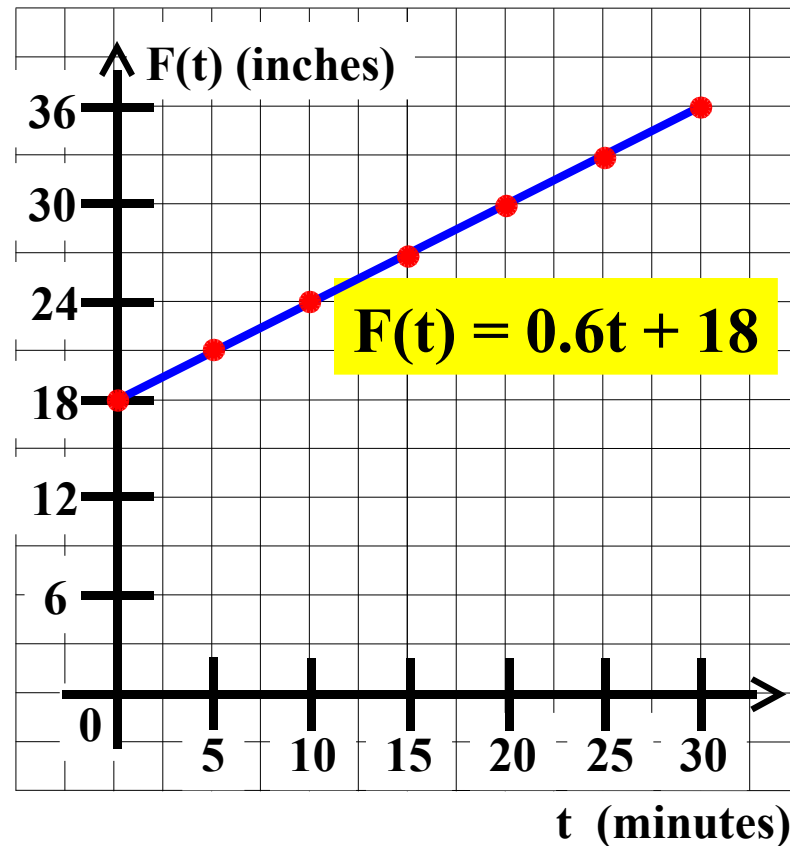
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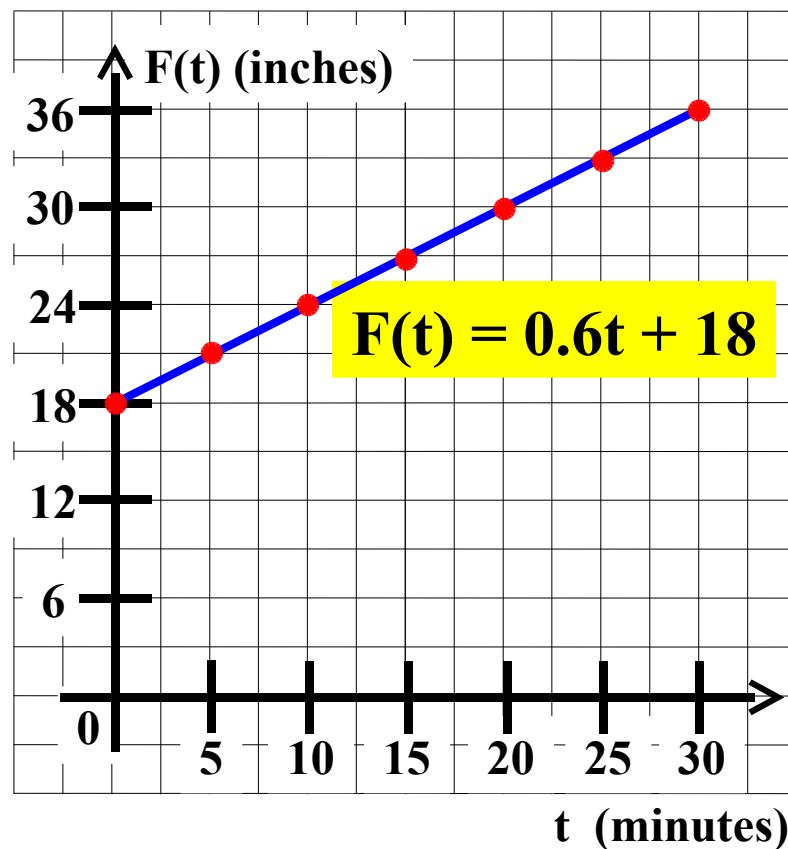
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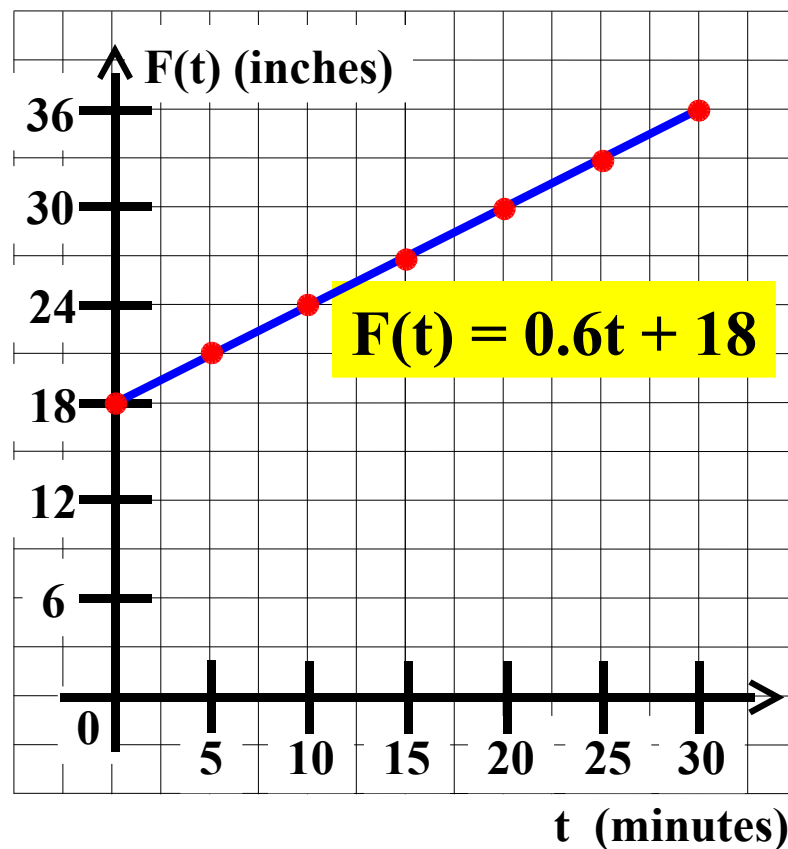
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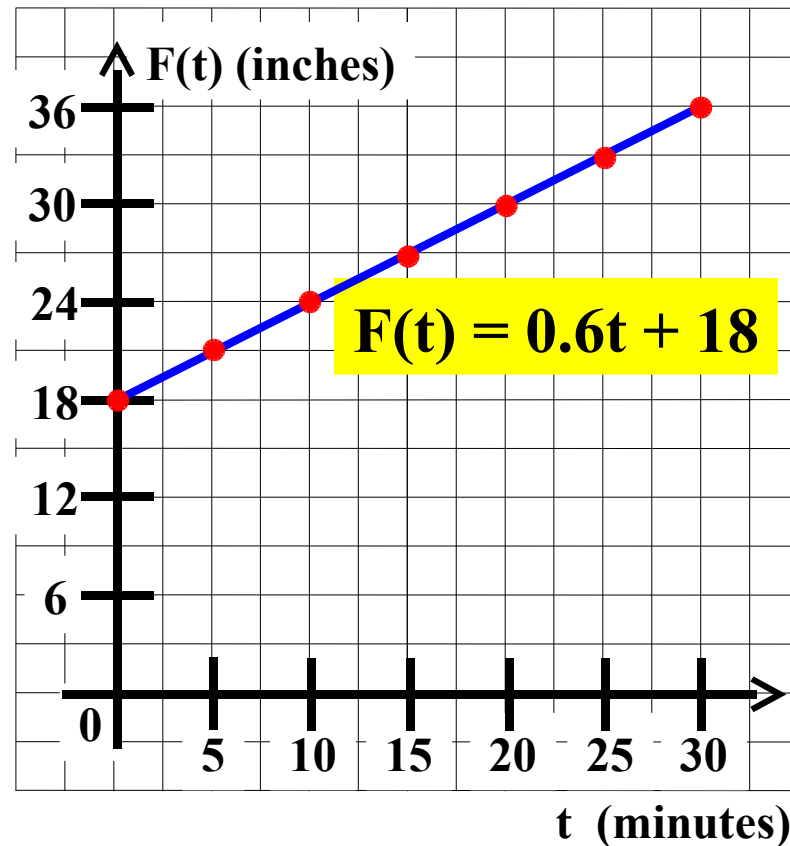
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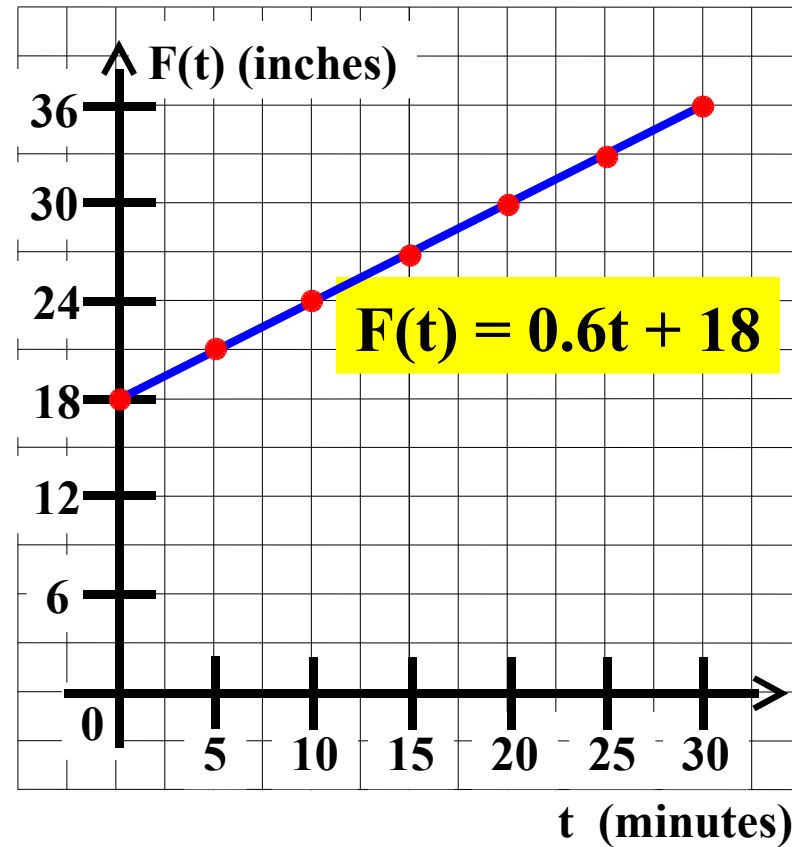
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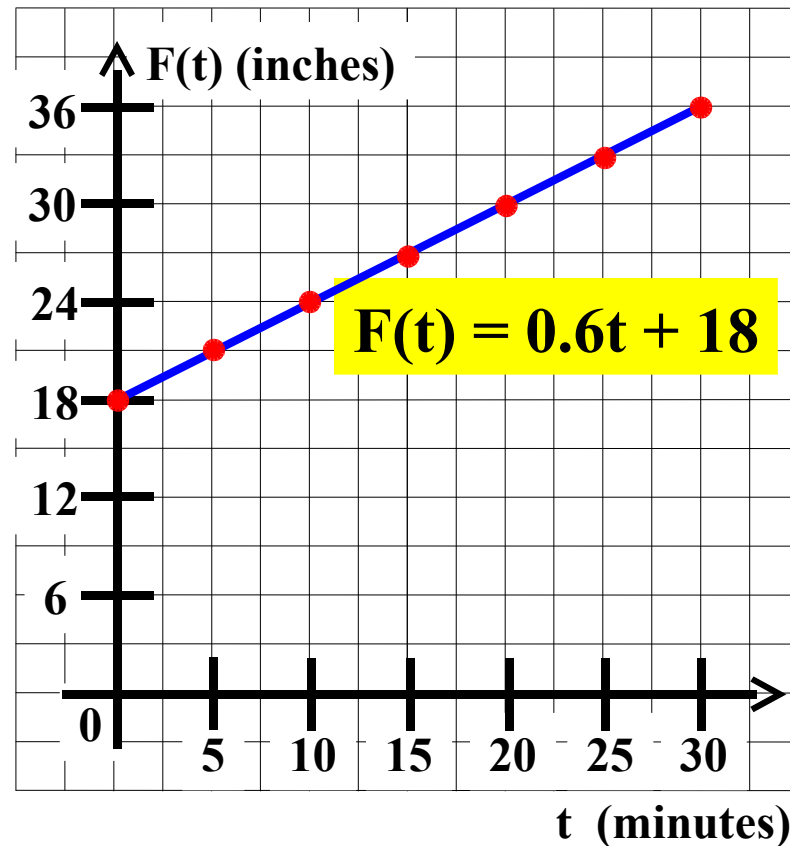
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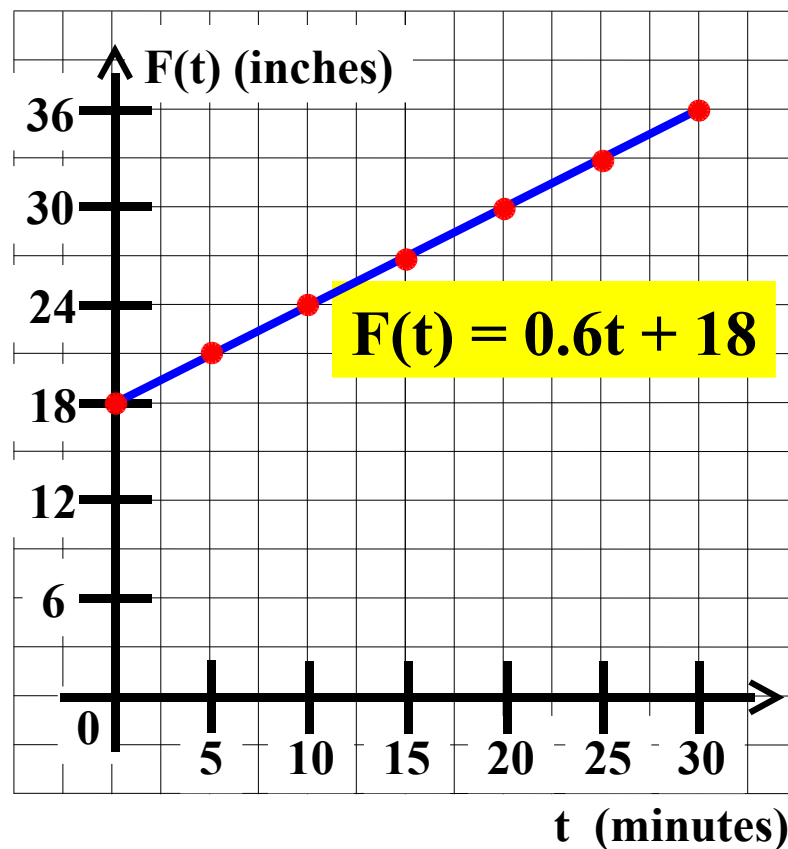
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$F(t) = 30 \longrightarrow t = 20$

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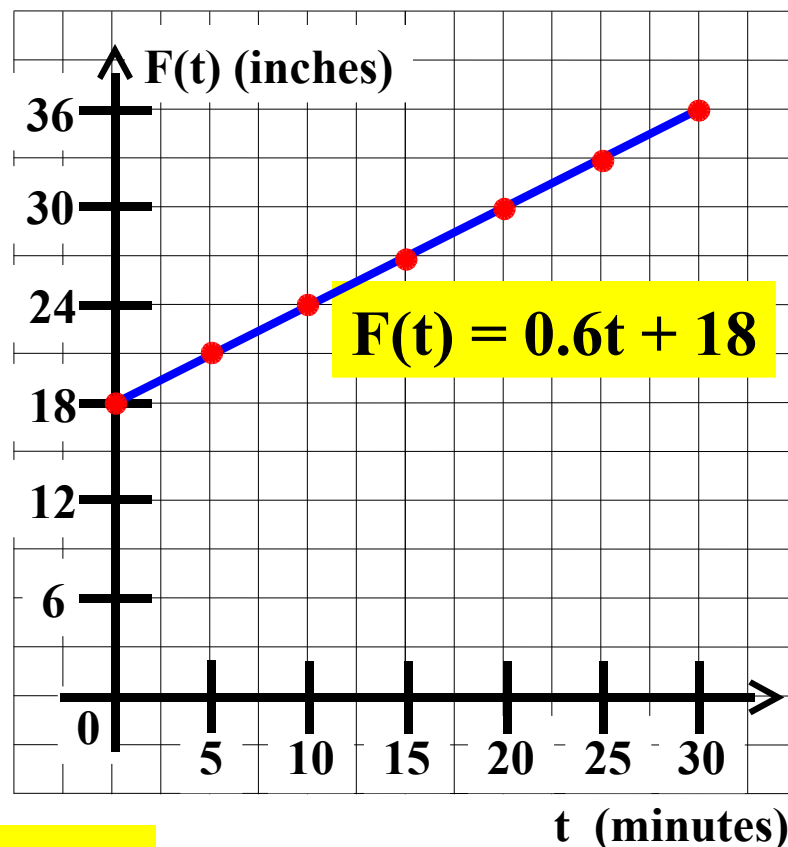
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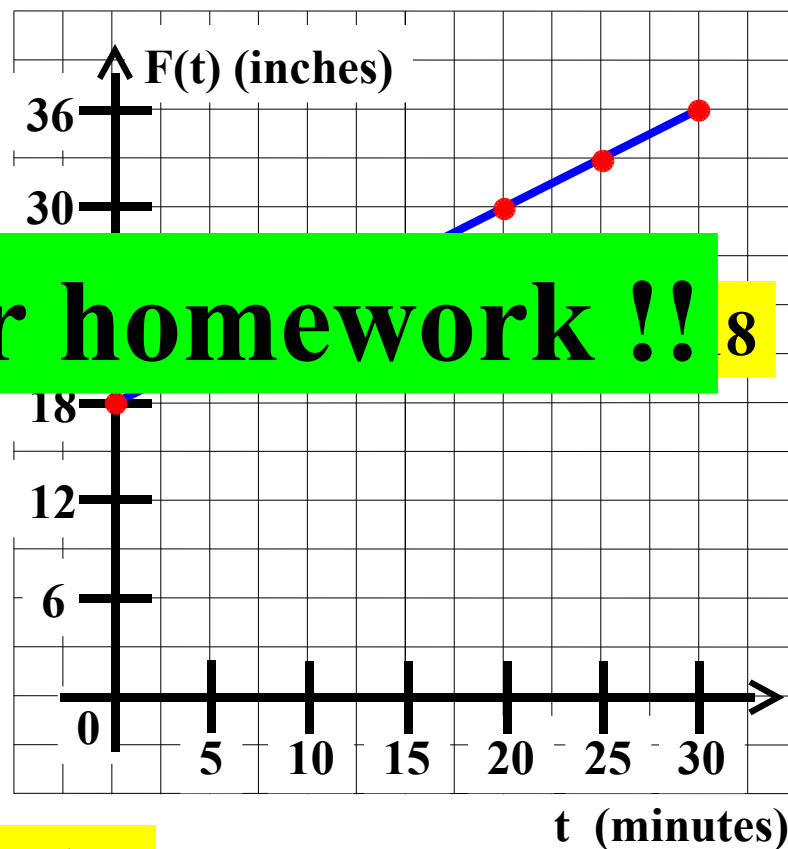
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Good luck on your homework !!

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