Algebra I Lesson #5 Unit 8
Class Worksheet #5
For Worksheets #9&10

Algebra I Class Worksheet #5 Unit 8

A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 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 I Class Worksheet #5 Unit 8

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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 I Class Worksheet #5 Unit 8

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

$$V = LWH$$

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

V = LWH

V =

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

V = LWH

V = (12 ft.)(

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

V = LWH

V = (12 ft.)(6 ft.)(

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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? _____

$$V = LWH$$

$$V = (12\text{ ft.})(6\text{ ft.})(5\text{ ft.})$$

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

$$V = LWH$$

$$V = (12\text{ ft.})(6\text{ ft.})(5\text{ ft.})$$

$$V =$$

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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? _____

$$V = LWH$$

$$V = (12\text{ ft.})(6\text{ ft.})(5\text{ ft.})$$

$$V = 360$$

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

V = LWH

V = (12 ft.)(6 ft.)(5 ft.)

V = 360 cu. ft.

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

V = LWH

V = (12 ft.)(6 ft.)(5 ft.)

V = 360 cu. ft.

Time =

Algebra I Class Worksheet #5 Unit 8

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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? _____

V = LWH

V = (12 ft.)(6 ft.)(5 ft.)

V = 360 cu. ft.

Time = 360 cu. ft.

Algebra I Class Worksheet #5 Unit 8

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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? _____

V = LWH

V = (12 ft.)(6 ft.)(5 ft.)

V = 360 cu. ft.

Time = 360 cu. ft. ÷

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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? _____

V = LWH

V = (12 ft.)(6 ft.)(5 ft.)

V = 360 cu. ft.

Time = 360 cu. ft. ÷ 9 cu. ft. per min.

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

V = LWH

V = (12 ft.)(6 ft.)(5 ft.)

V = 360 cu. ft.

Time = 360 cu. ft. ÷ 9 cu. ft. per min.

Time =

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

V = LWH

V = (12 ft.)(6 ft.)(5 ft.)

V = 360 cu. ft.

Time = 360 cu. ft. ÷ 9 cu. ft. per min.

Time = 40 minutes

Algebra I Class Worksheet #5 Unit 8

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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? **40 minutes**

$$V = LWH$$

$$V = (12 \text{ ft.})(6 \text{ ft.})(5 \text{ ft.})$$

$$V = 360 \text{ cu. ft.}$$

$$\text{Time} = 360 \text{ cu. ft.} \div 9 \text{ cu. ft. per min.}$$

$$\text{Time} = 40 \text{ minutes}$$

Algebra I Class Worksheet #5 Unit 8

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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

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t	f(t)

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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

Algebra I Class Worksheet #5 Unit 8

A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 cubic feet per minute until the tank is full.
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0	
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

When t = 0,

Algebra I Class Worksheet #5 Unit 8

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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

When t = 0, the tank is empty.

Algebra I Class Worksheet #5 Unit 8

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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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

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

Algebra I Class Worksheet #5 Unit 8

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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

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

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t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

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

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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

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

Algebra I Class Worksheet #5 Unit 8

A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

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

When t = 40,

Algebra I Class Worksheet #5 Unit 8

A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

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

When t = 40, the tank is full.

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A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	

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

When t = 40, the tank is full.
The water is 60 inches deep.

Algebra I Class Worksheet #5 Unit 8

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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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	60

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

When t = 40, the tank is full.
The water is 60 inches deep.

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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	60

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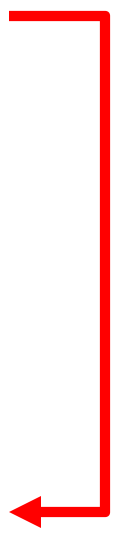
t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	60



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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	60

The water depth increases 60 inches

Algebra I Class Worksheet #5 Unit 8

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12	
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t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	60

The water depth increases 60 inches in 40 minutes.

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4	
8	
12	
16	
20	
24	
28	
32	
36	
40	60

The water depth increases 60 inches in 40 minutes.

It increases at

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t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	60

The water depth increases 60 inches in 40 minutes.

It increases at 1.5 inches per minute.

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t	f(t)
0	0
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	60

The water depth increases 60 inches in 40 minutes.

It increases at 1.5 inches per minute.

It increases 6 inches every 4 minutes.

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8	
12	
16	
20	
24	
28	
32	
36	
40	60

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It increases at 1.5 inches per minute.

It increases 6 inches every 4 minutes.

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8	
12	
16	
20	
24	
28	
32	
36	
40	60

The water depth increases 60 inches in 40 minutes.

It increases at 1.5 inches per minute.

It increases 6 inches every 4 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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	
12	
16	
20	
24	
28	
32	
36	
40	60

The water depth increases 60 inches in 40 minutes.

It increases at 1.5 inches per minute.

It increases 6 inches every 4 minutes.

Algebra I Class Worksheet #5 Unit 8

A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	
12	
16	
20	
24	
28	
32	
36	
40	60

The water depth increases 60 inches in 40 minutes.

It increases at 1.5 inches per minute.

It increases 6 inches every 4 minutes.

Algebra I Class Worksheet #5 Unit 8

A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	12
12	
16	
20	
24	
28	
32	
36	
40	60

The water depth increases 60 inches in 40 minutes.

It increases at 1.5 inches per minute.

It increases 6 inches every 4 minutes.

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A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	12
12	
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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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	12
12	18
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20	
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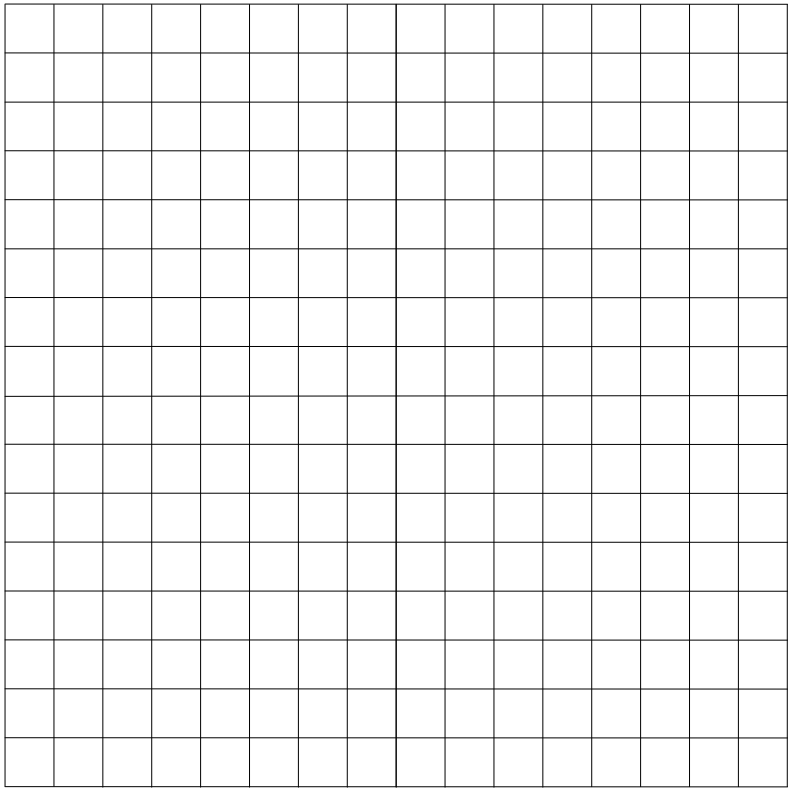
3. Graph function f.



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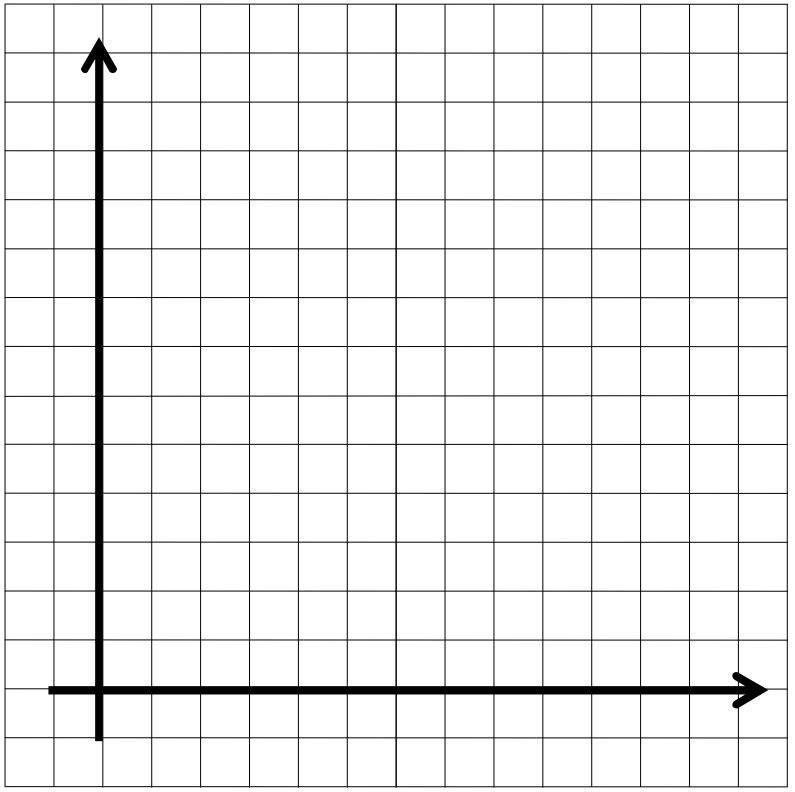

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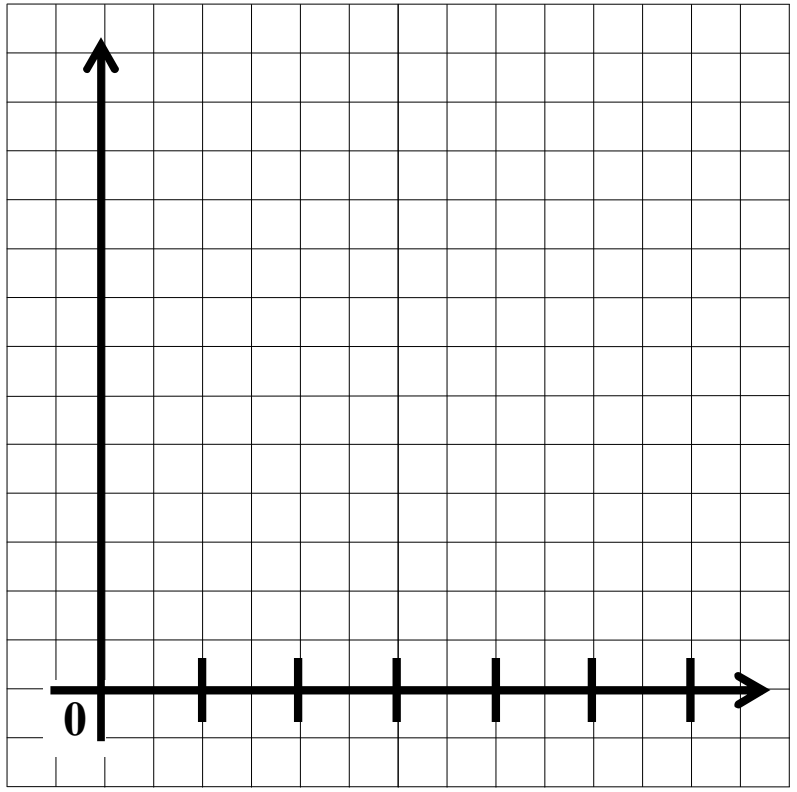

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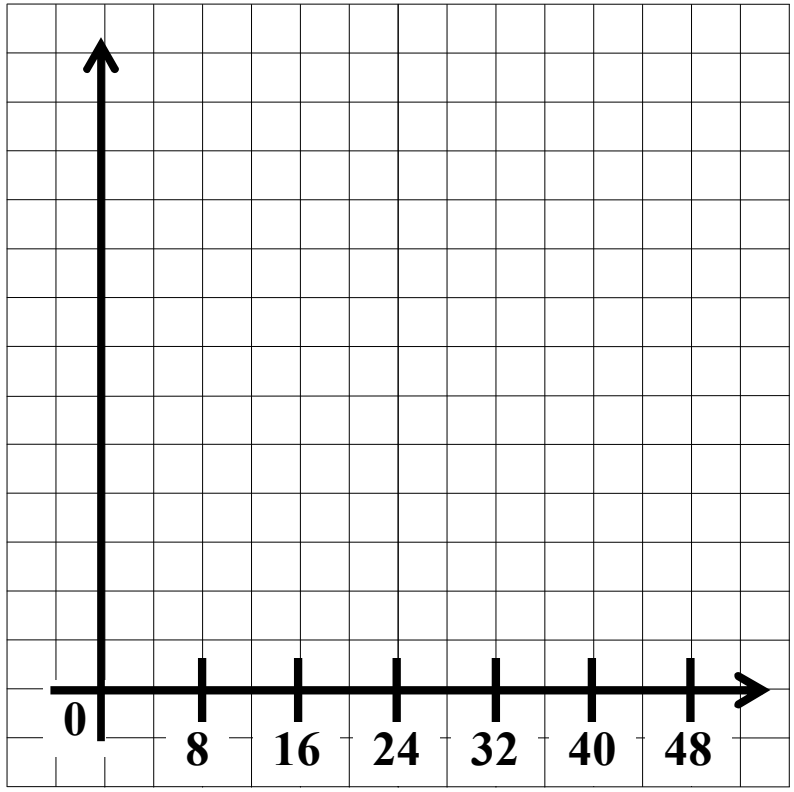

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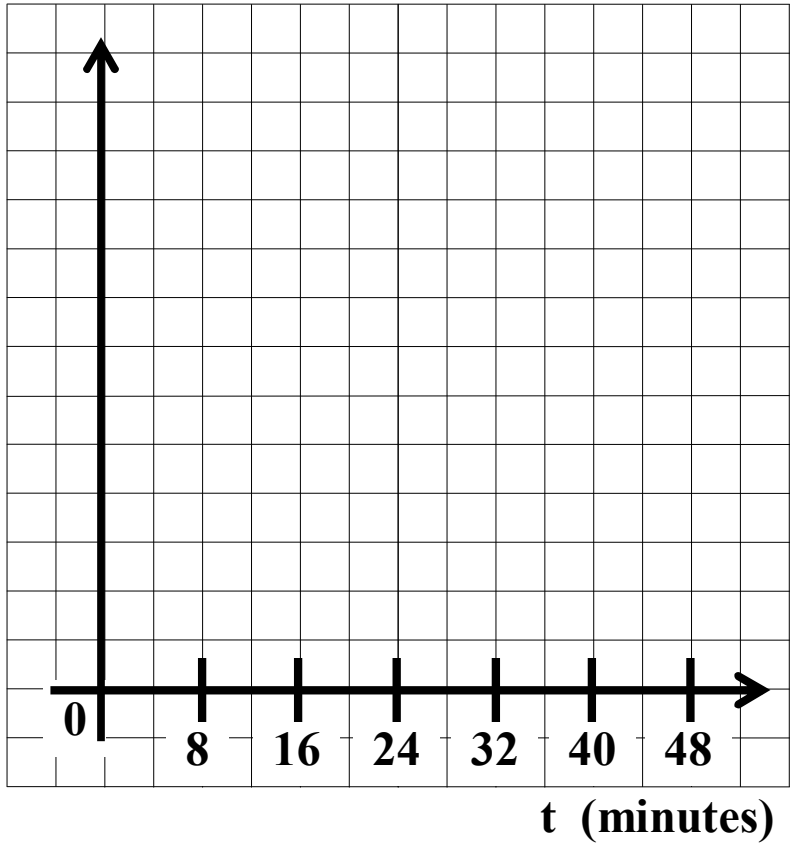

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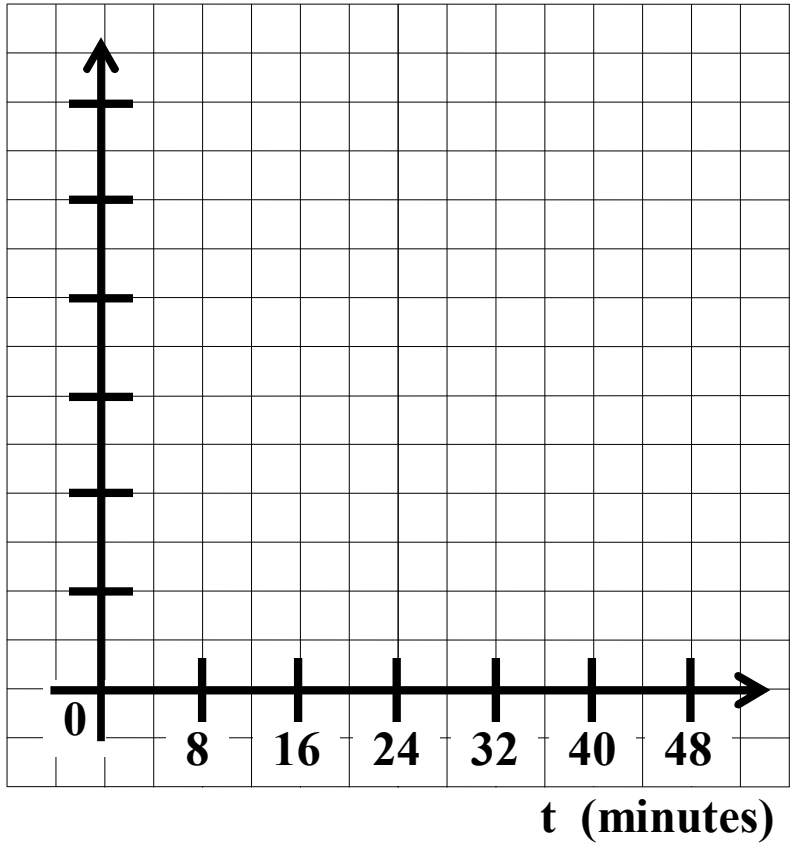

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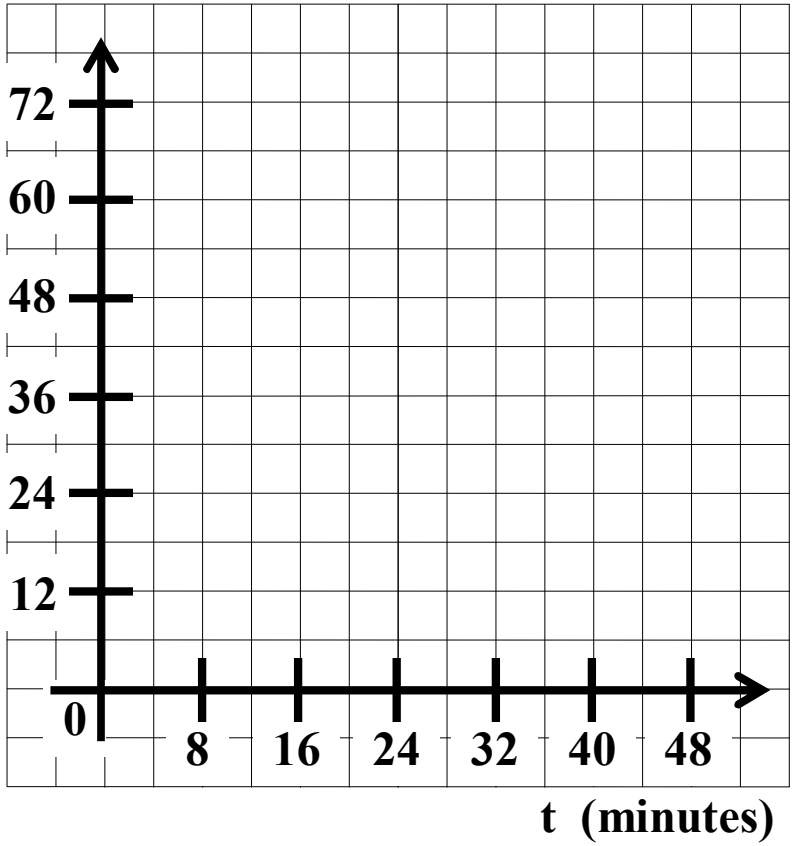

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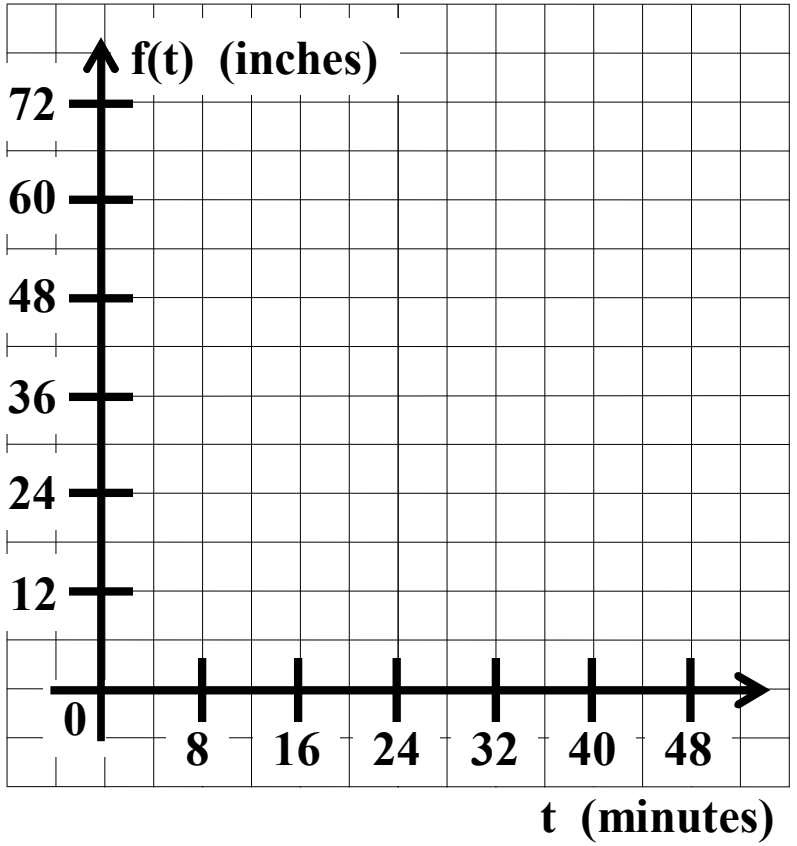

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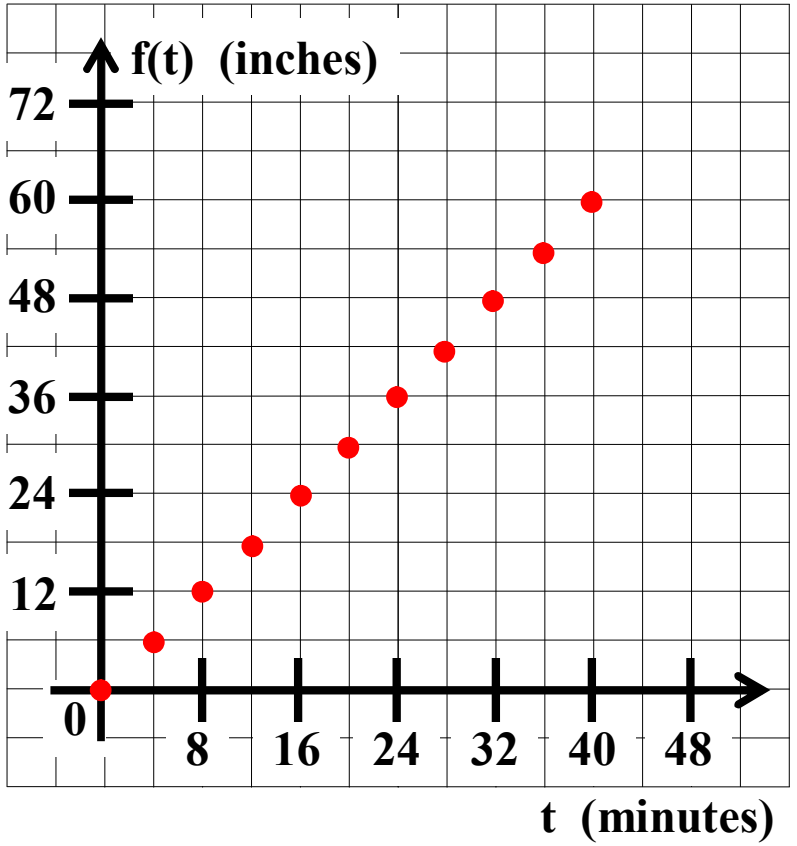

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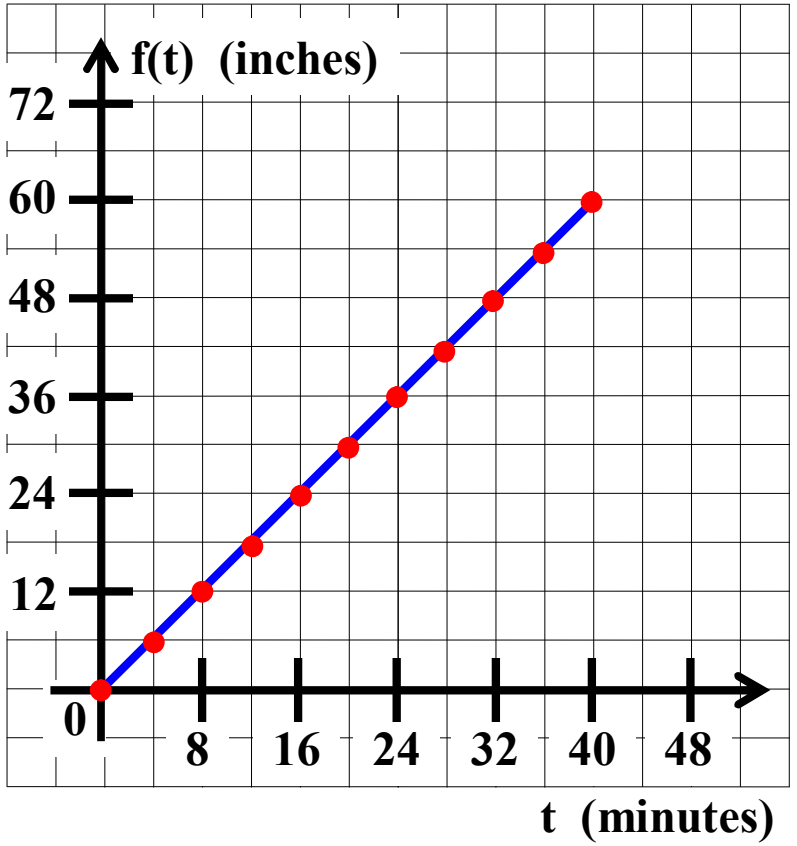

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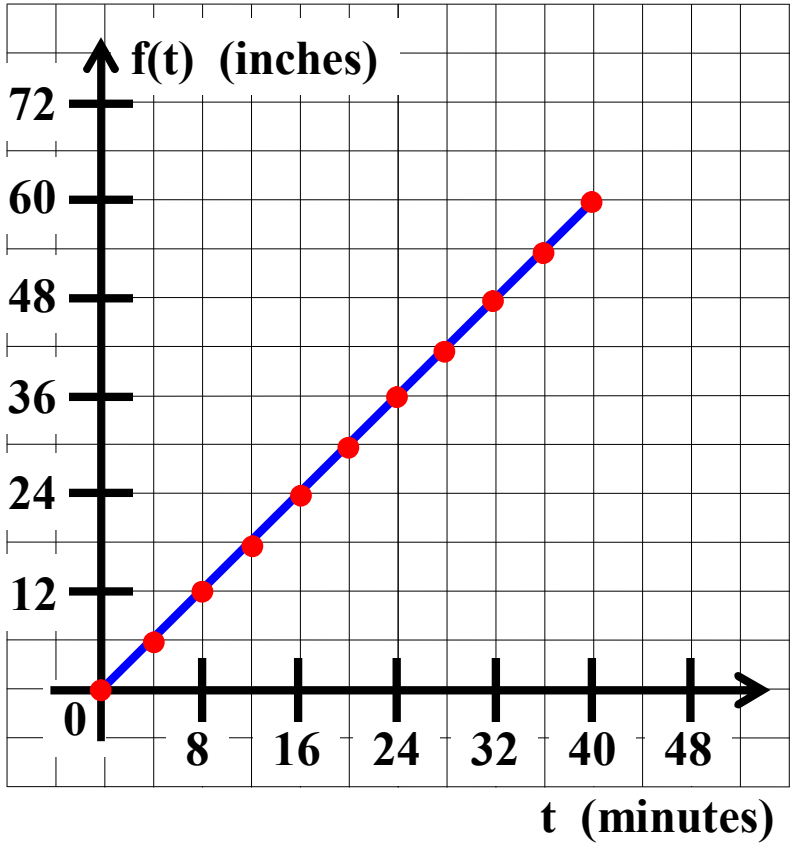

4. Write an equation giving f(t) in terms of t.

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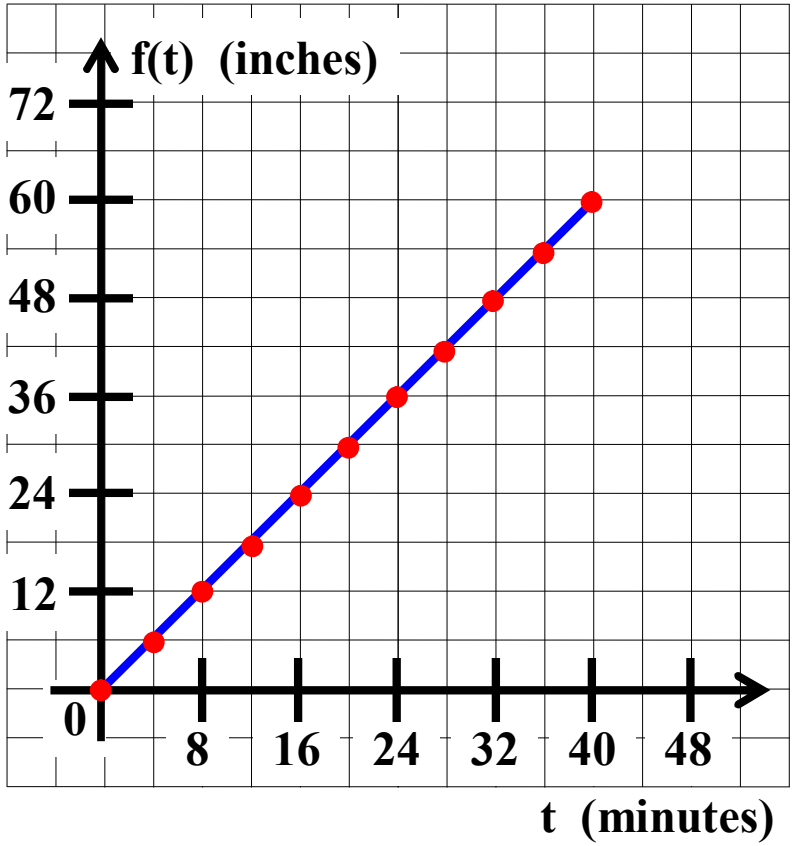


4. Write an equation giving f(t) in terms of t. **f(t) =**

Algebra I Class Worksheet #5 Unit 8

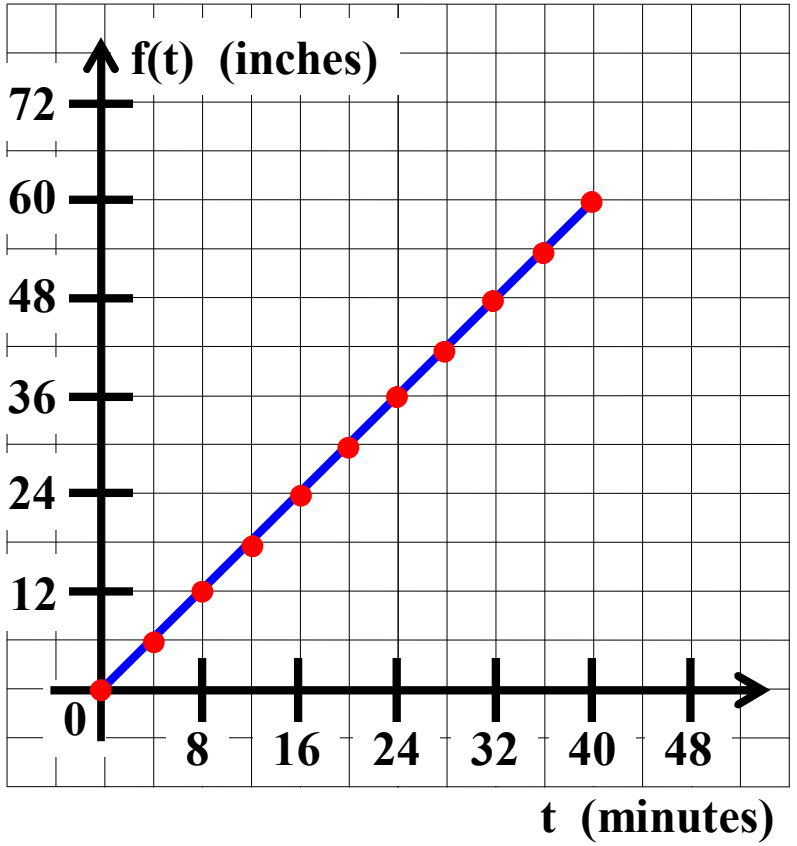
A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 cubic feet per minute until the tank is full.
Let t represent the time that water has been pumped into the tank (in **minutes**).
Let f(t) represent the **depth of the water** in the tank (in **inches**).

1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

3. Graph function f.



4. Write an equation giving f(t) in terms of t. $f(t) = 1.5t$

Algebra I Class Worksheet #5 Unit 8

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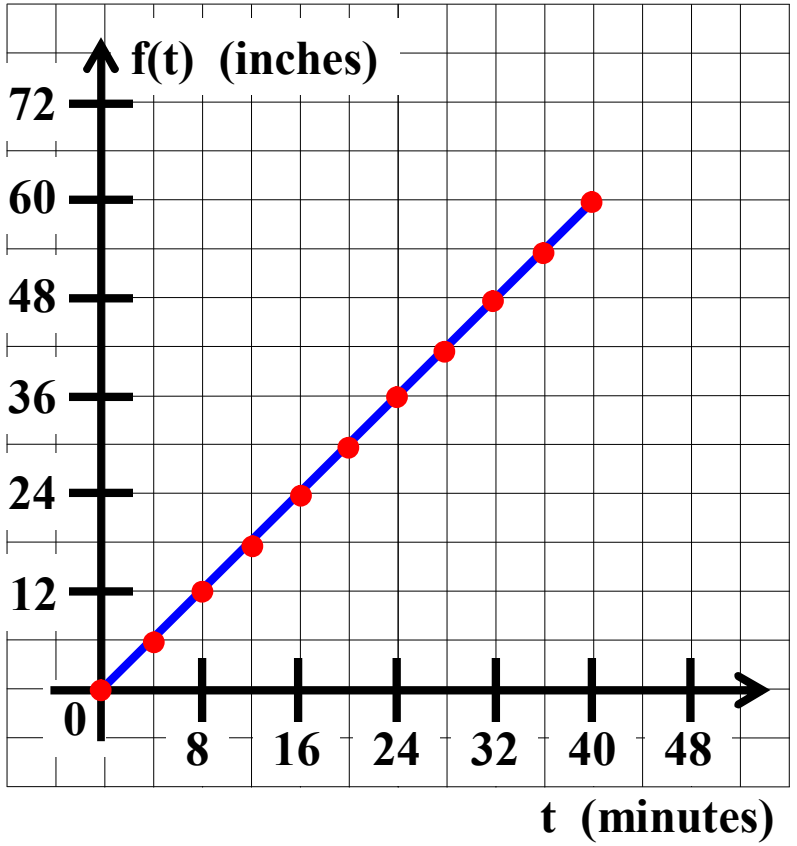

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Algebra I Class Worksheet #5 Unit 8

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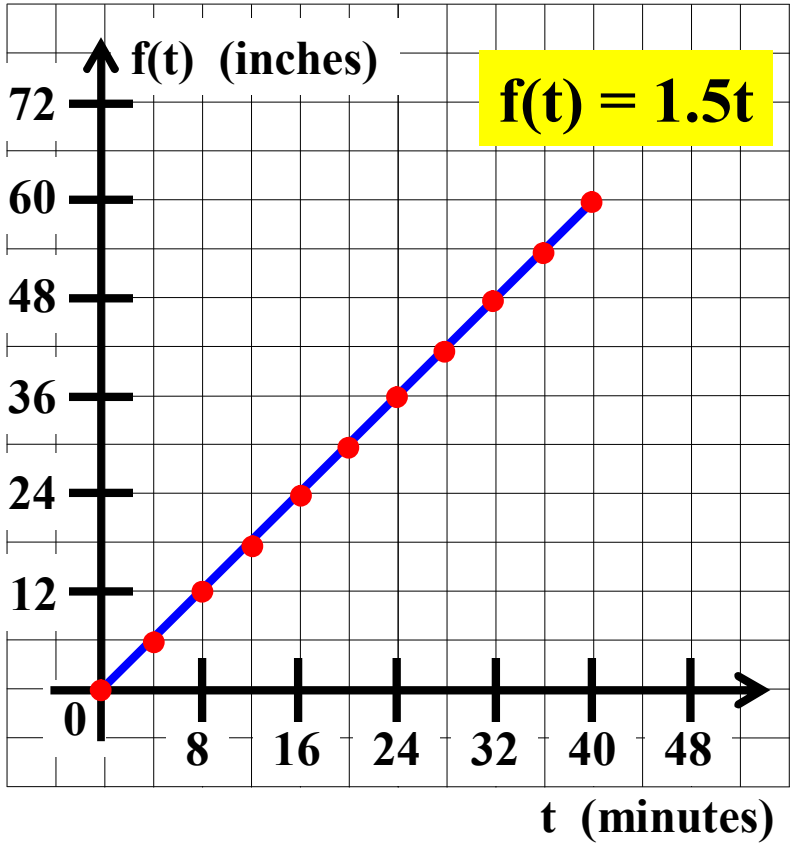

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Algebra I Class Worksheet #5 Unit 8

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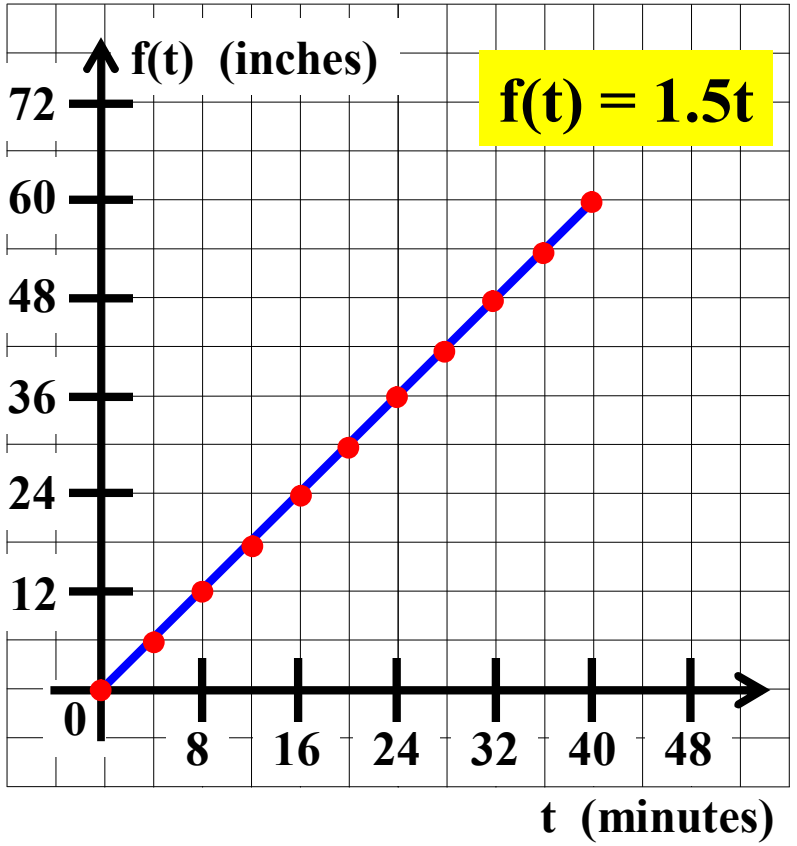

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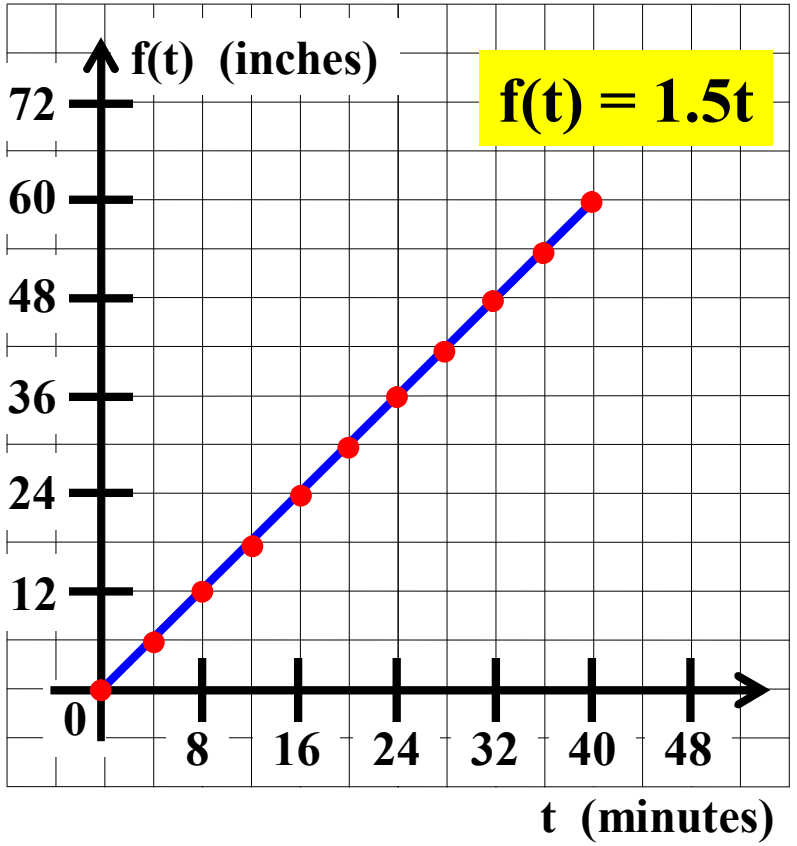

5. Write an inequality to describe the domain of function f. _____

Algebra I Class Worksheet #5 Unit 8

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4	6
8	12
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16	24
20	30
24	36
28	42
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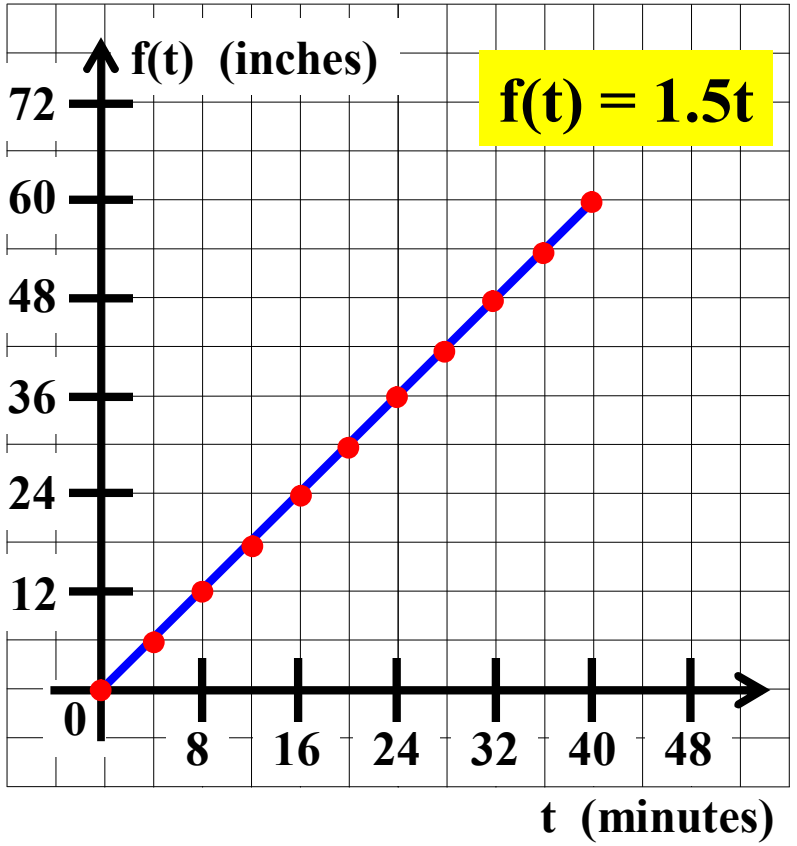

5. Write an inequality to describe the domain of function f. **0** _____

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4	6
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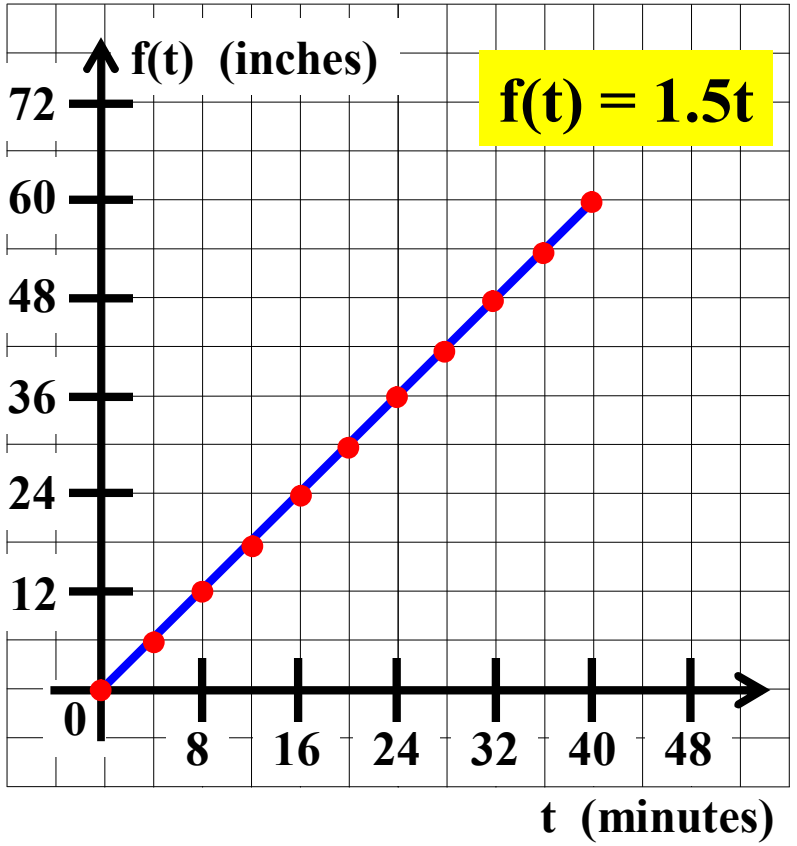

5. Write an inequality to describe the domain of function f. $0 \leq$ _____

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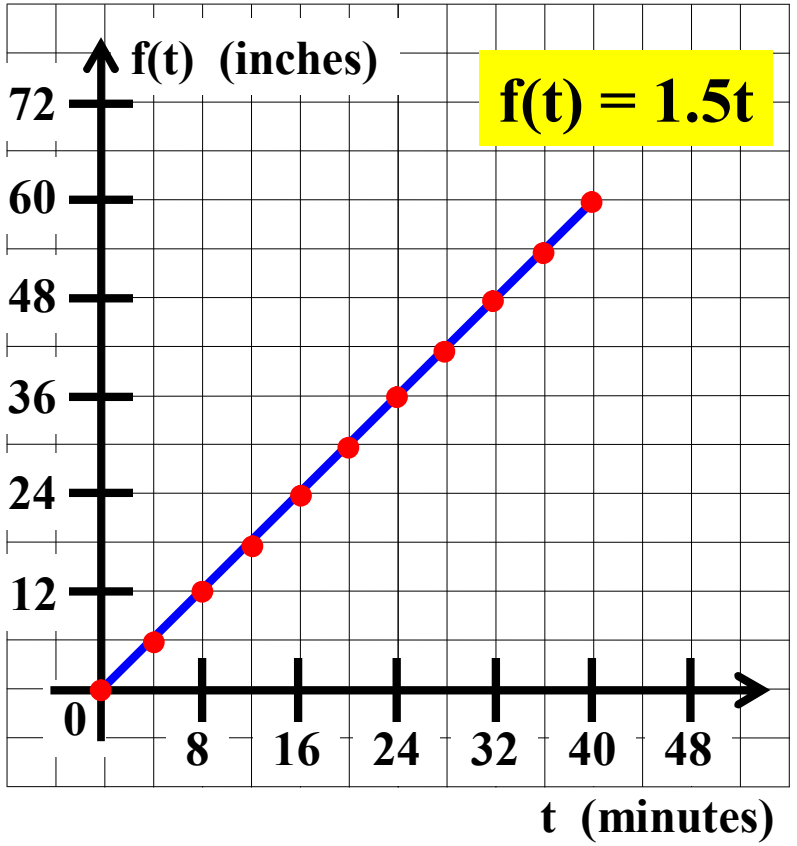

5. Write an inequality to describe the domain of function f. $0 \leq t$

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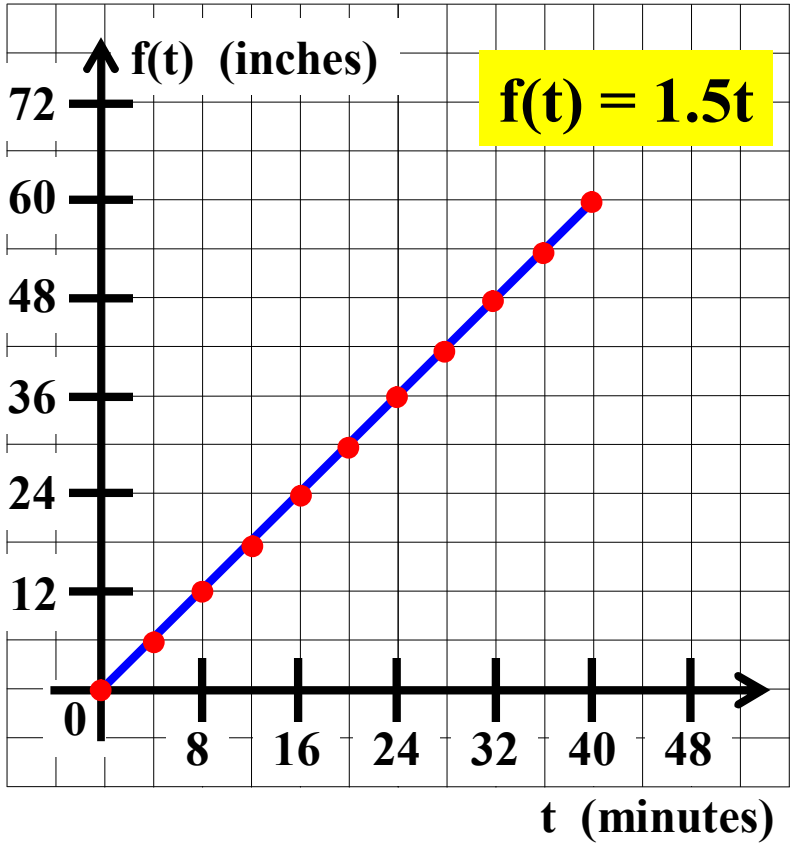

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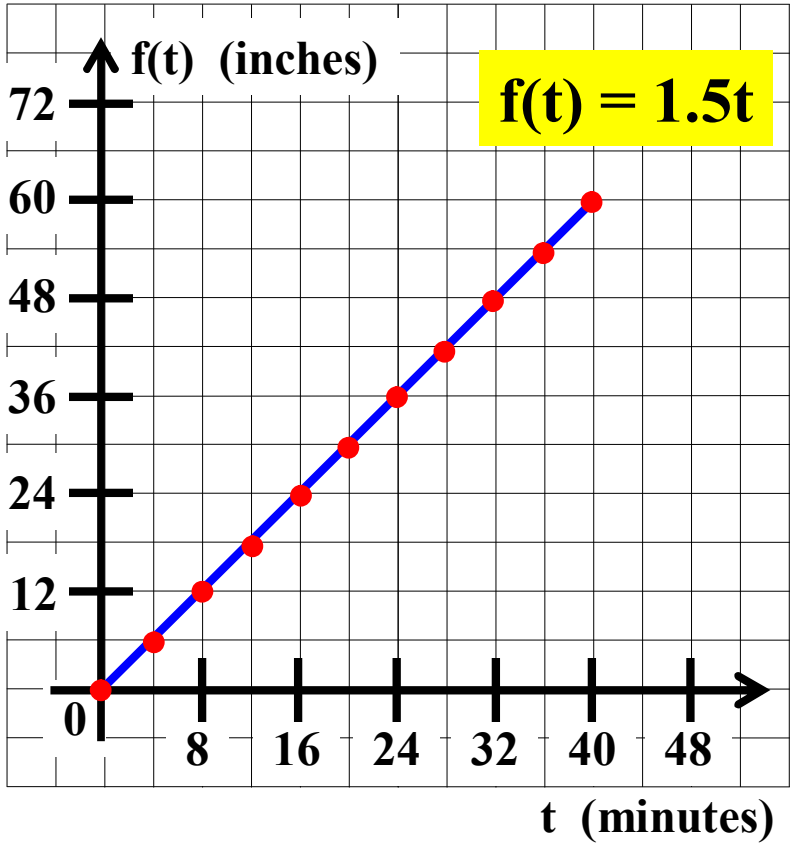

5. Write an inequality to describe the domain of function f. $0 \leq t \leq 40$

Algebra I Class Worksheet #5 Unit 8

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8	12
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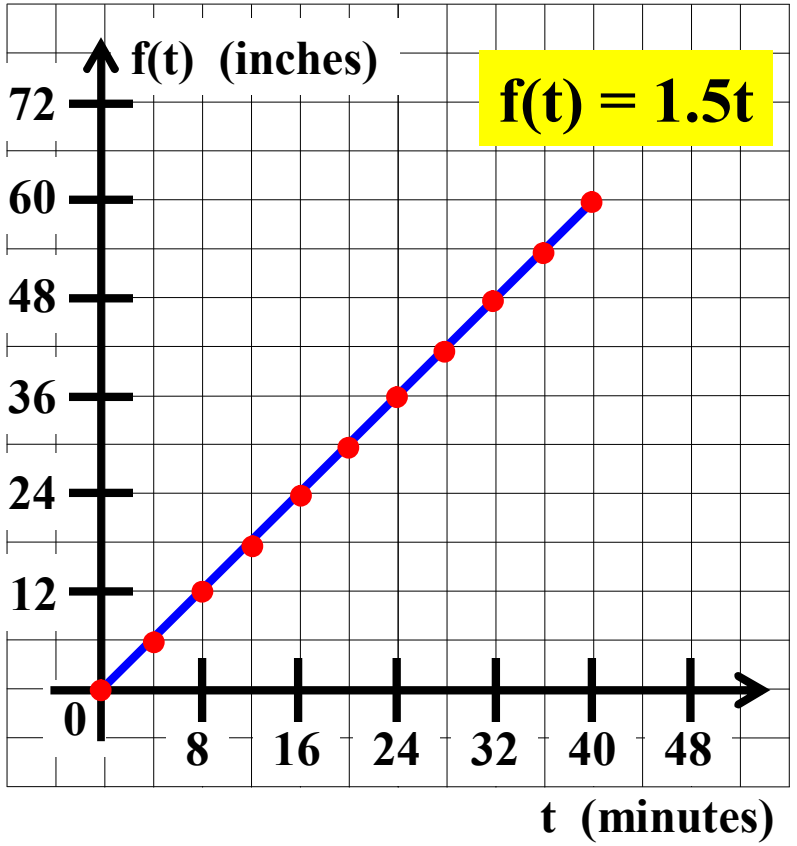

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12	18
16	24
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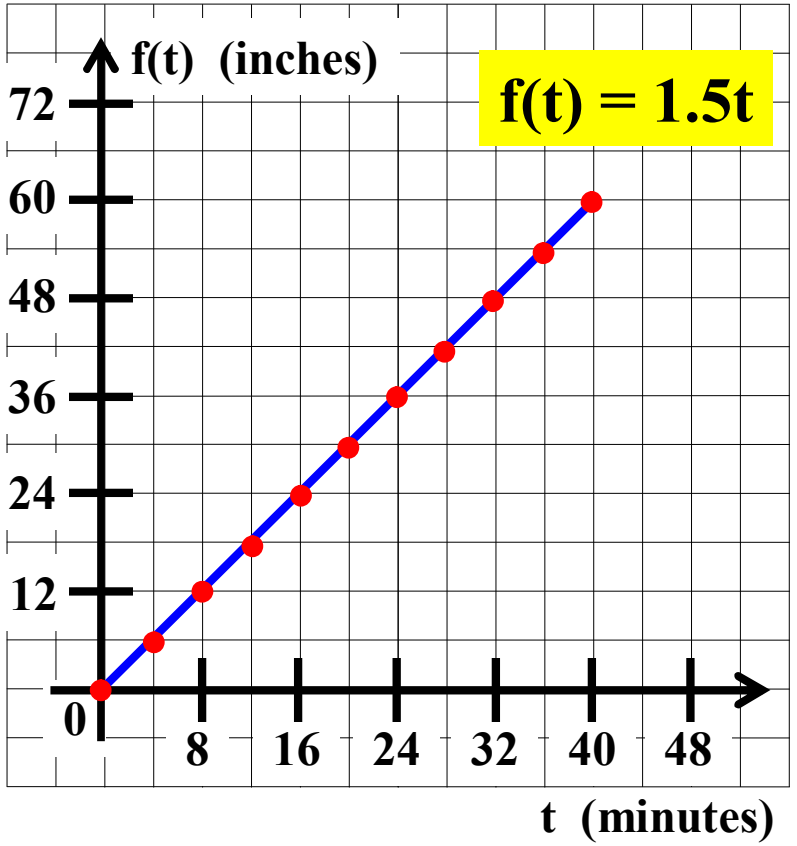
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

3. Graph function f.



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28	42
32	48
36	54
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domain

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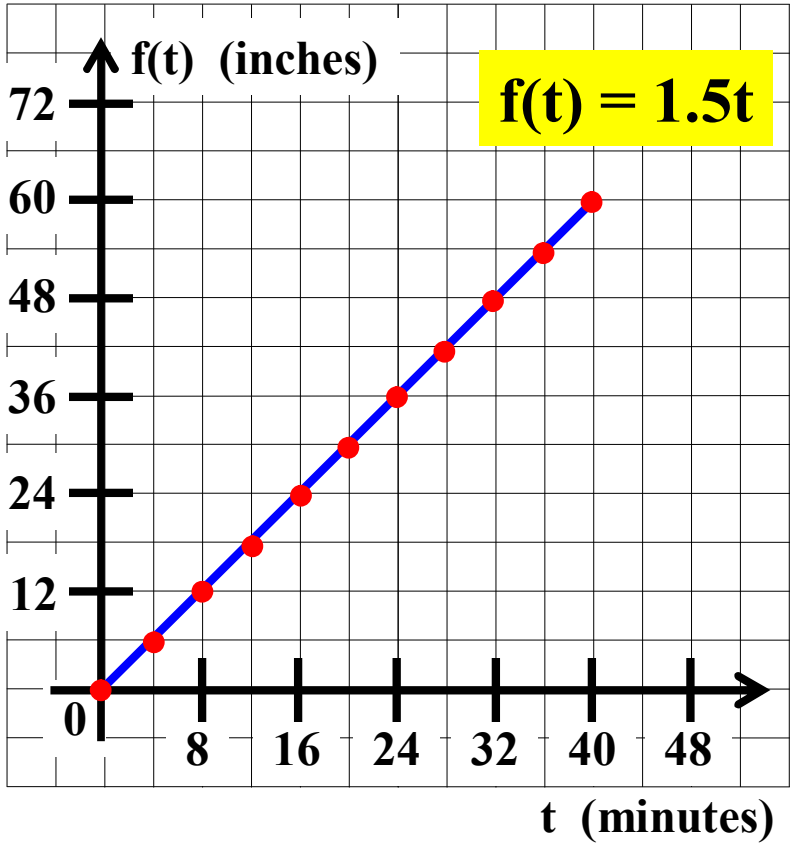

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domain

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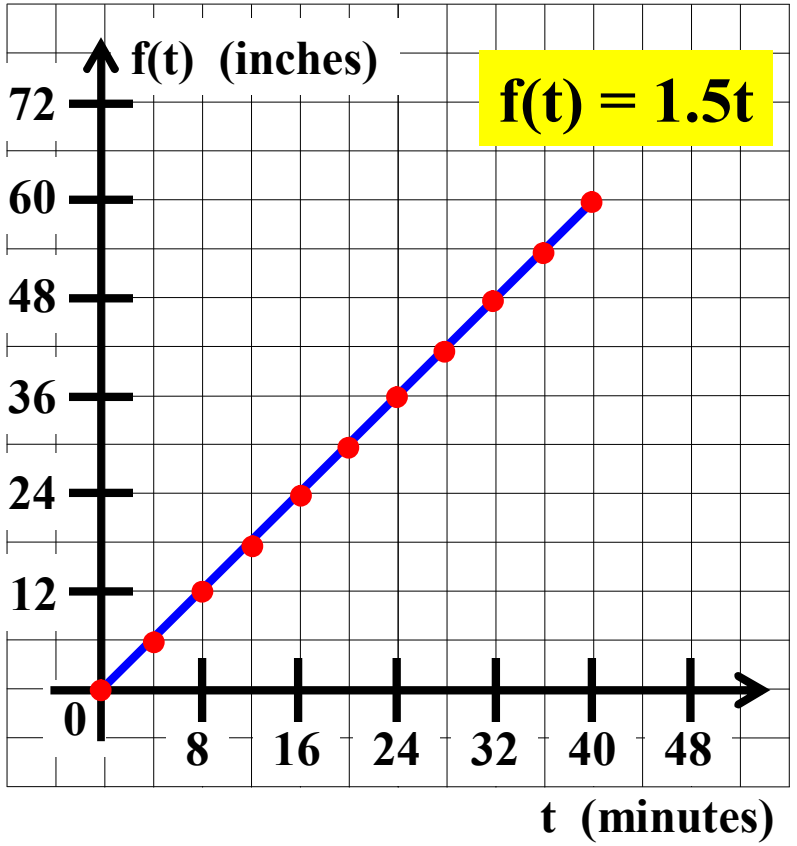

6. Write an inequality to describe the range of function f. _____

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4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

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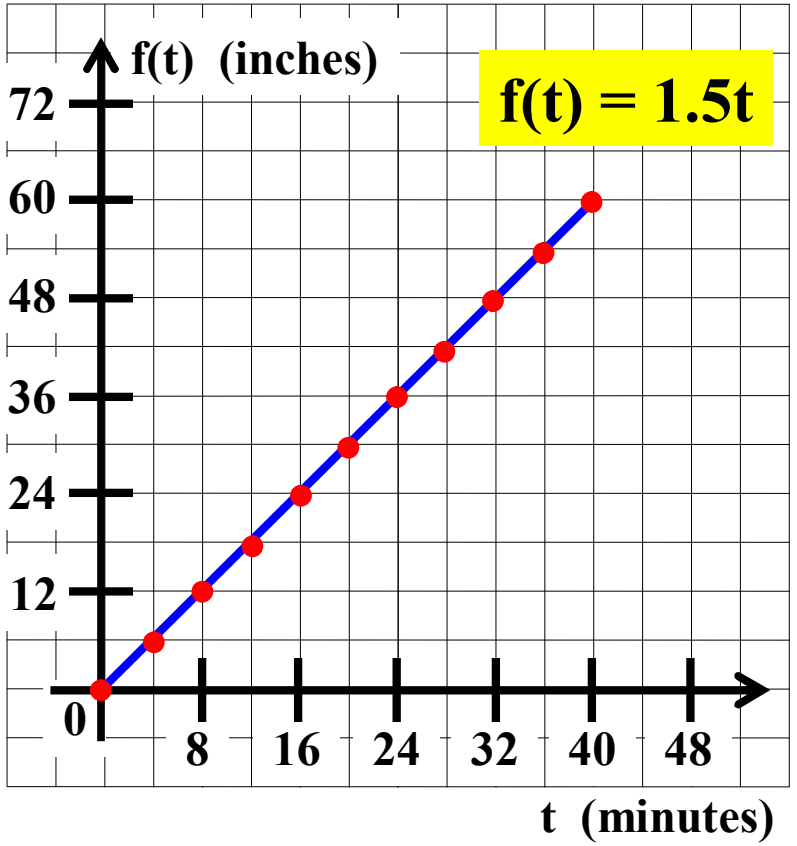

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domain

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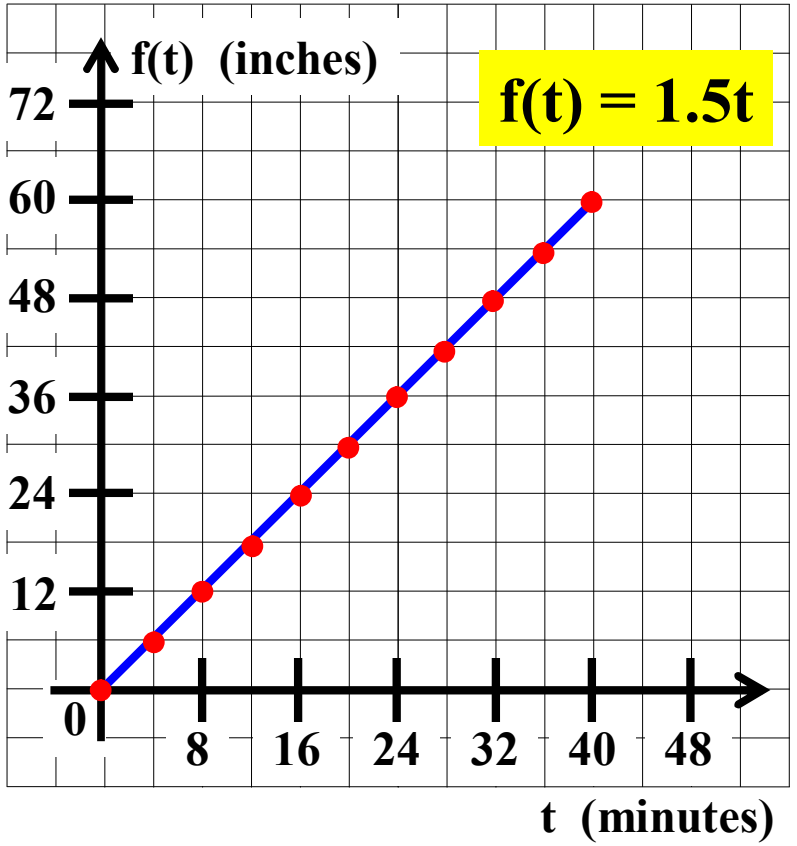

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domain

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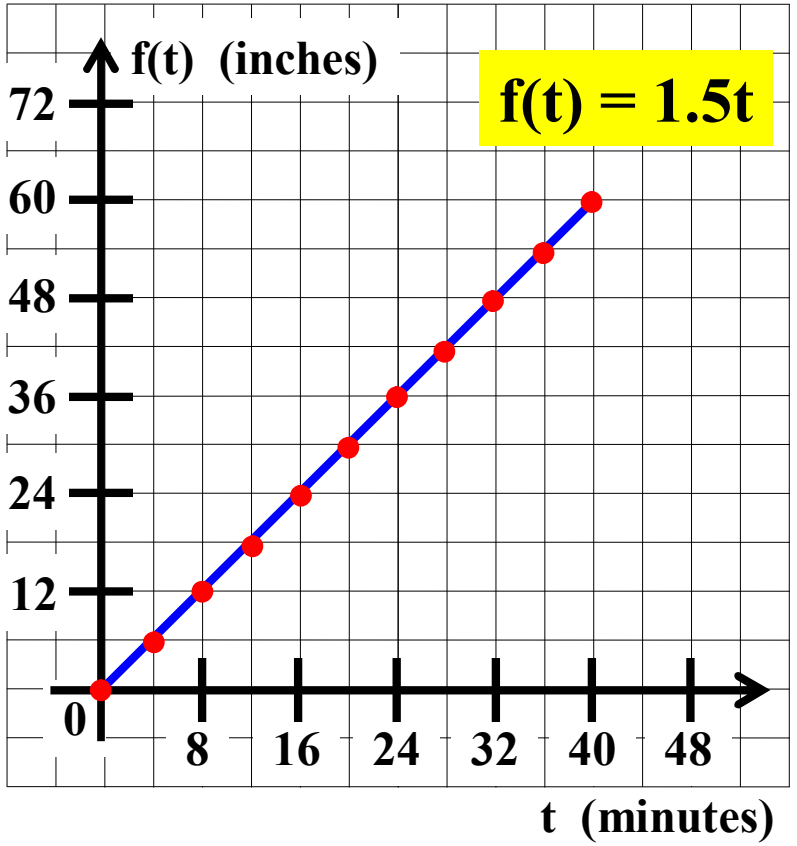

6. Write an inequality to describe the range of function f. $0 \le f(t)$

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20	30
24	36
28	42
32	48
36	54
40	60

domain

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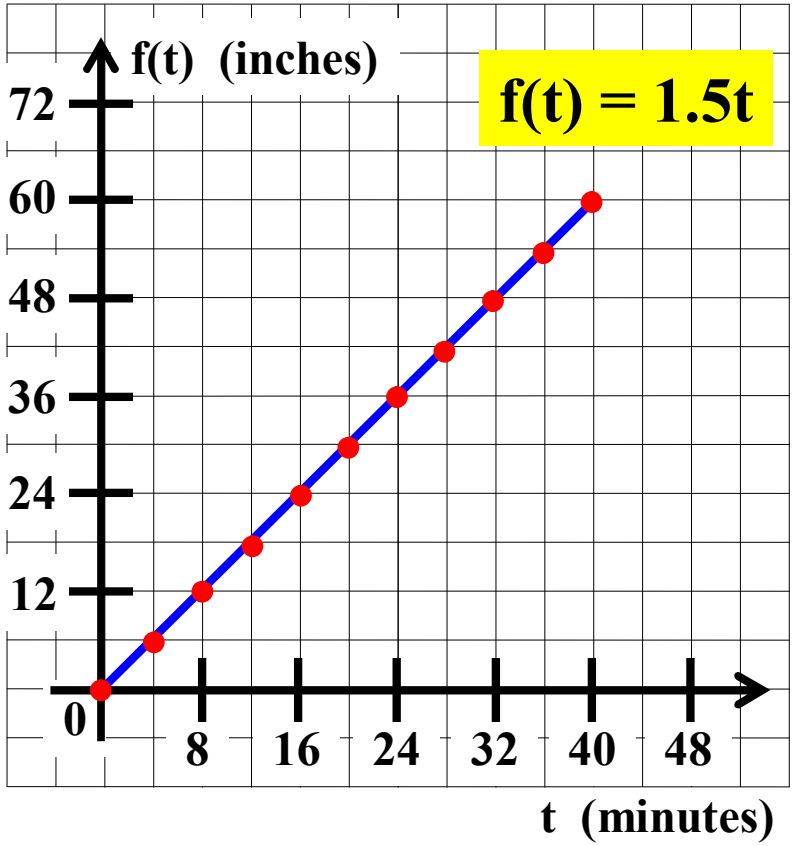

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36	54
40	60

domain

$0 \le t \le 40$

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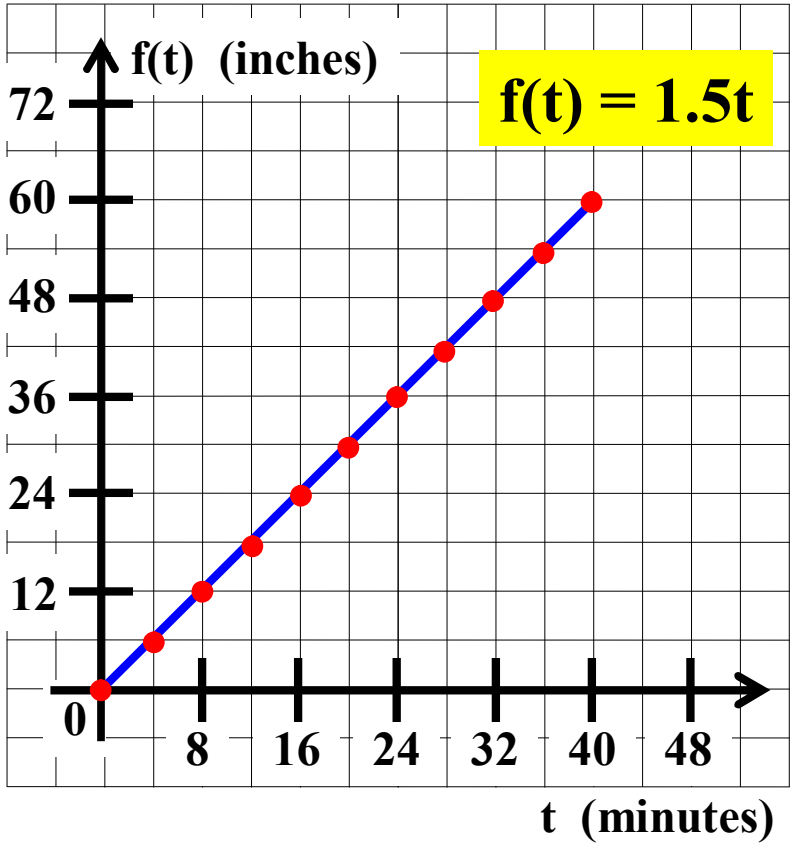

6. Write an inequality to describe the range of function f. $0 \le f(t) \le 60$

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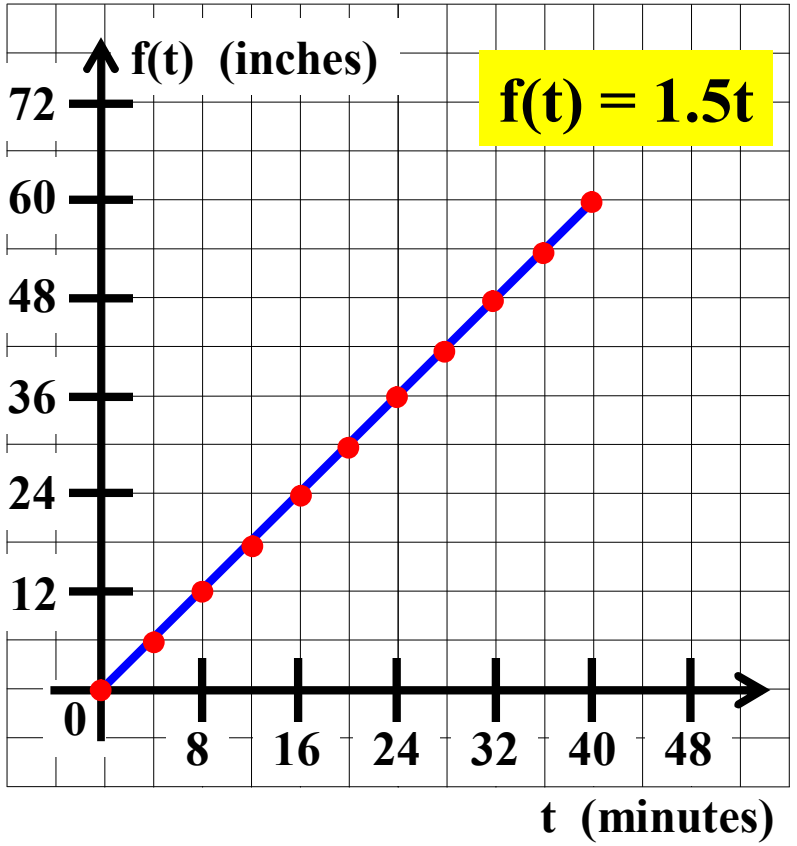
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

3. Graph function f.



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24	36
28	42
32	48
36	54
40	60

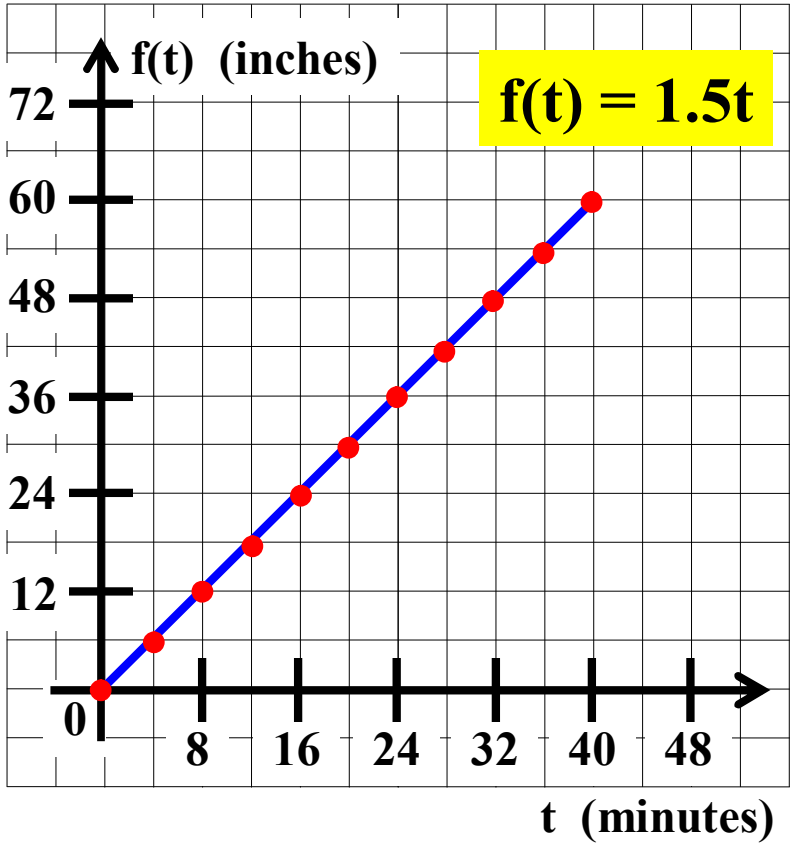
domain

$0 \le t \le 40$

range

$0 \le f(t) \le 60$

3. Graph function f.



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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

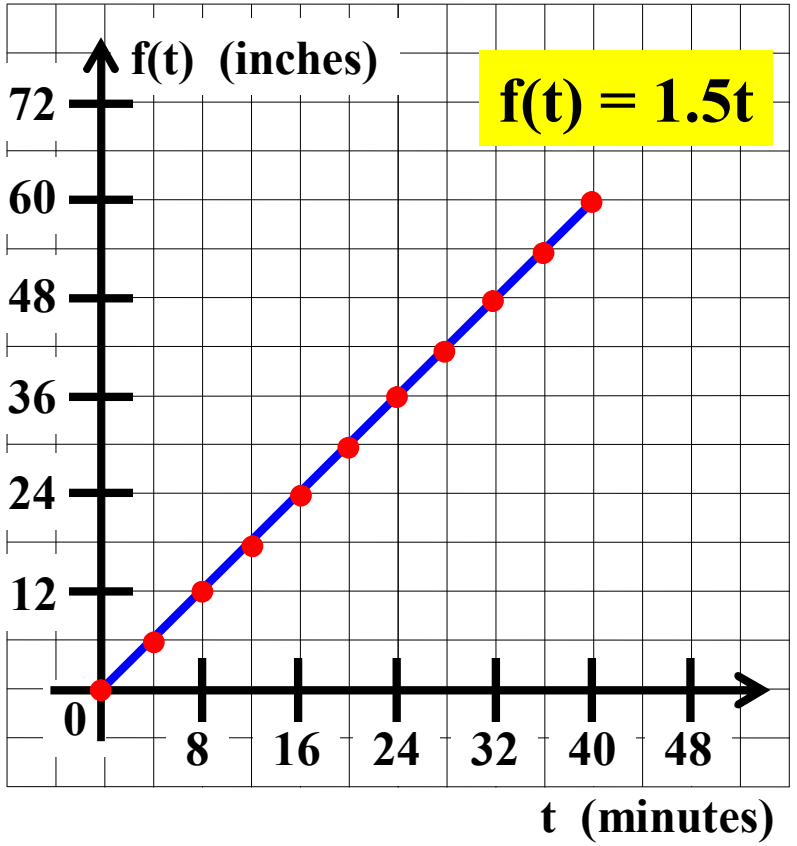
domain

$0 \le t \le 40$

range

$0 \le f(t) \le 60$

3. Graph function f.



Algebra I Class Worksheet #5 Unit 8

A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

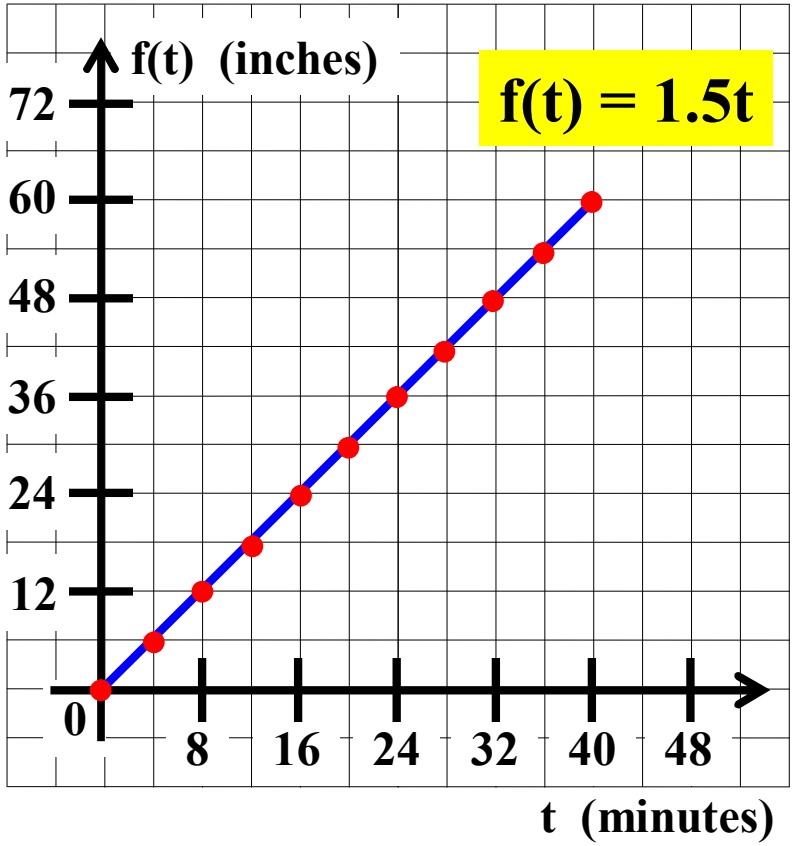
$0 \le t \le 40$

range

$0 \le f(t) \le 60$

7. Evaluate f(20).

3. Graph function f.



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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

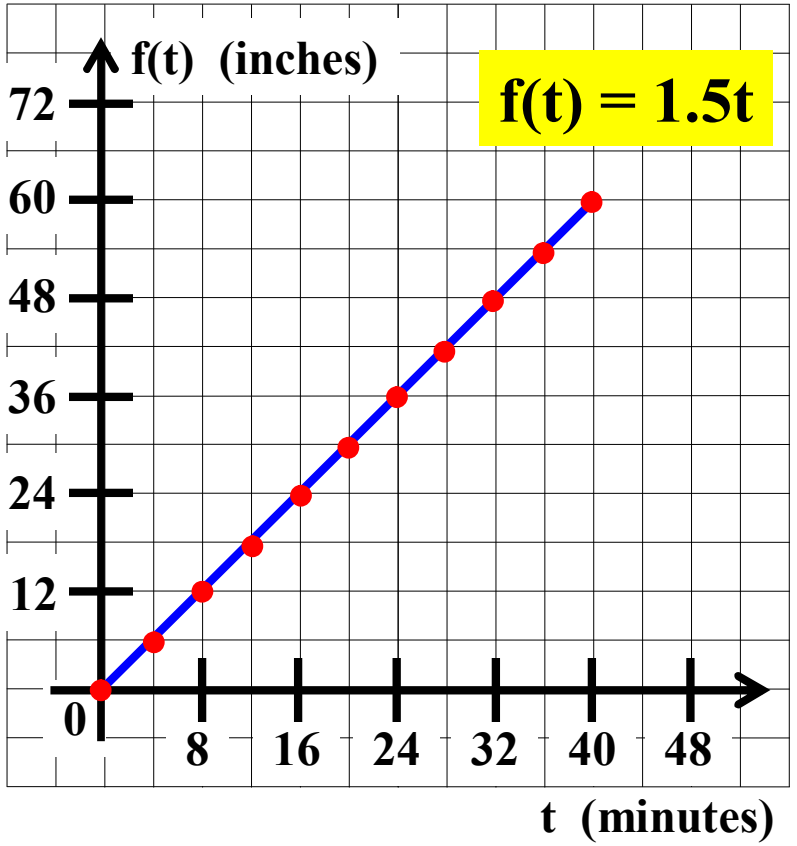
$0 \le t \le 40$

range

$0 \le f(t) \le 60$

7. Evaluate f(20).

3. Graph function f.



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2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

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0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

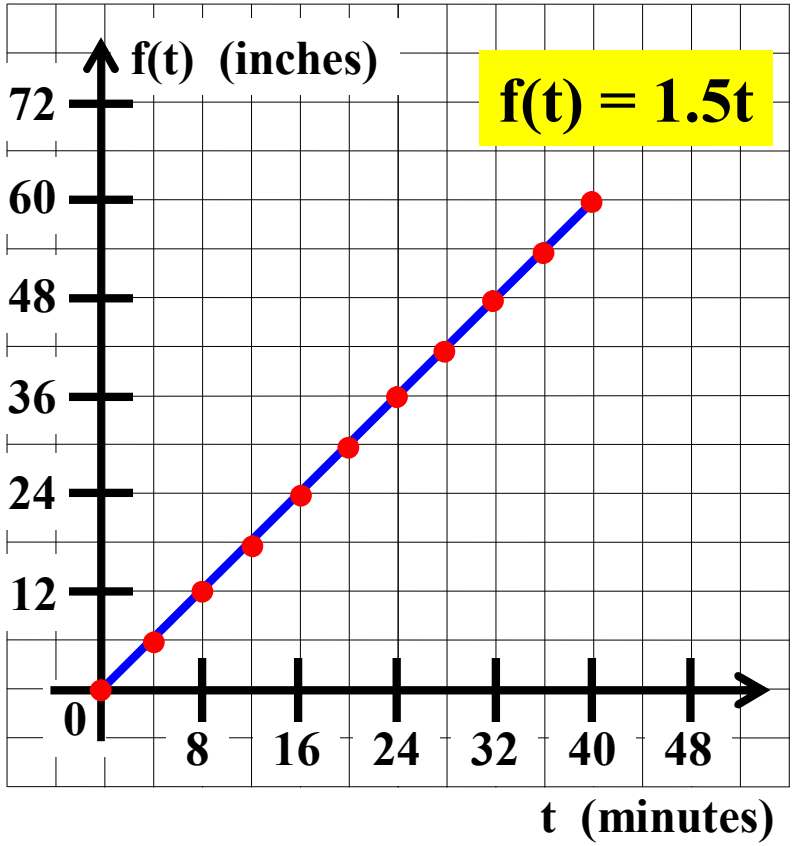
range

$0 \le f(t) \le 60$

7. Evaluate f(20).

f(20)

3. Graph function f.



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0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

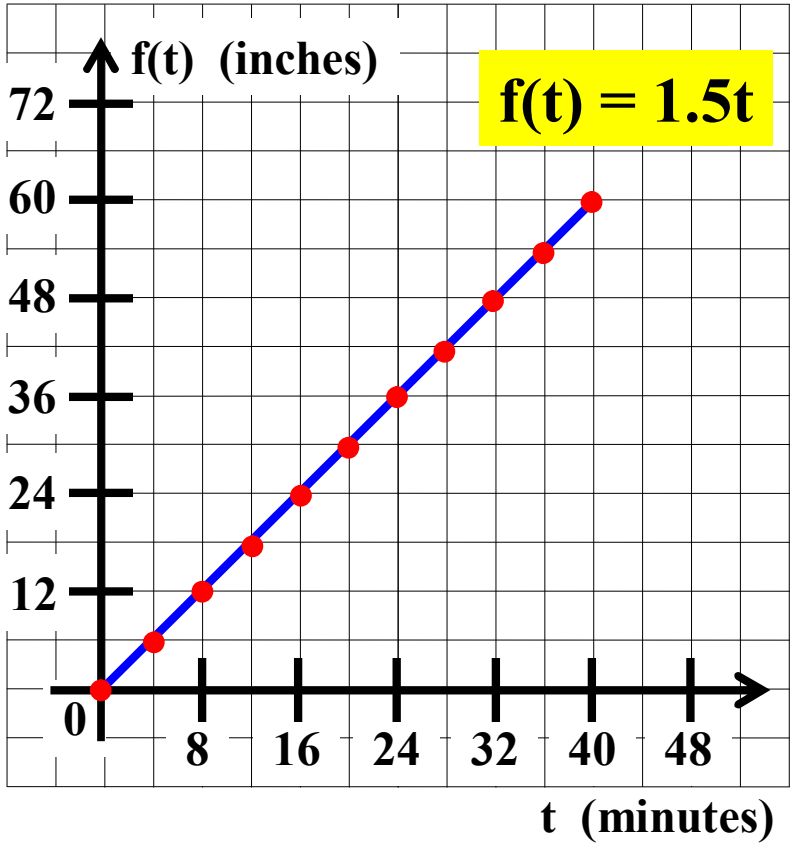
range

$0 \le f(t) \le 60$

7. Evaluate f(20).

f(20) =

3. Graph function f.



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t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

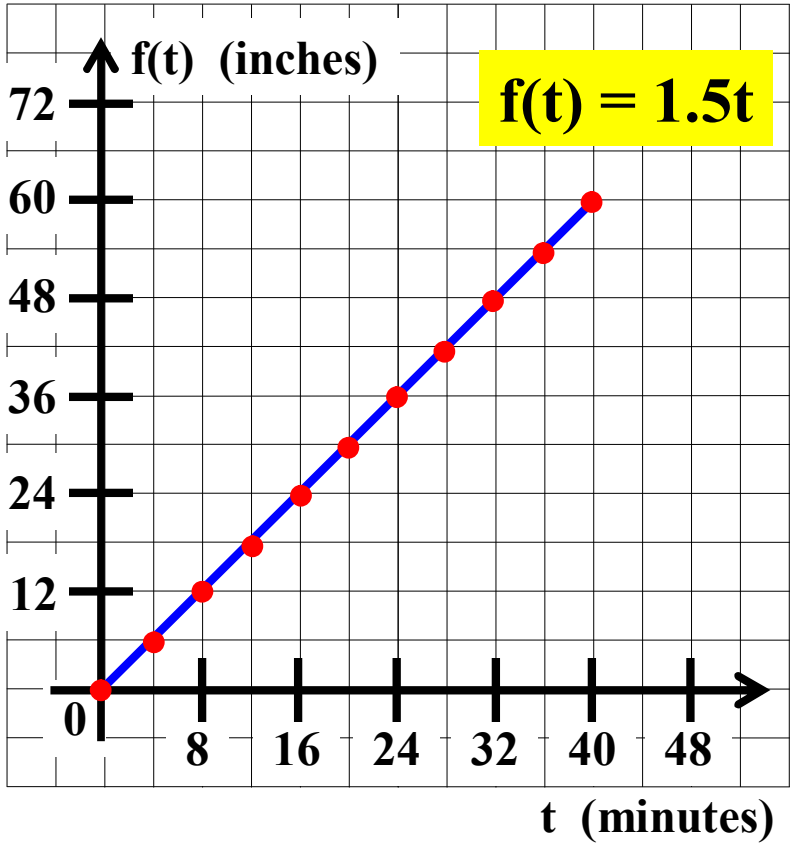
range

$0 \le f(t) \le 60$

7. Evaluate f(20).

$f(20) = 30$

3. Graph function f.



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4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

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range

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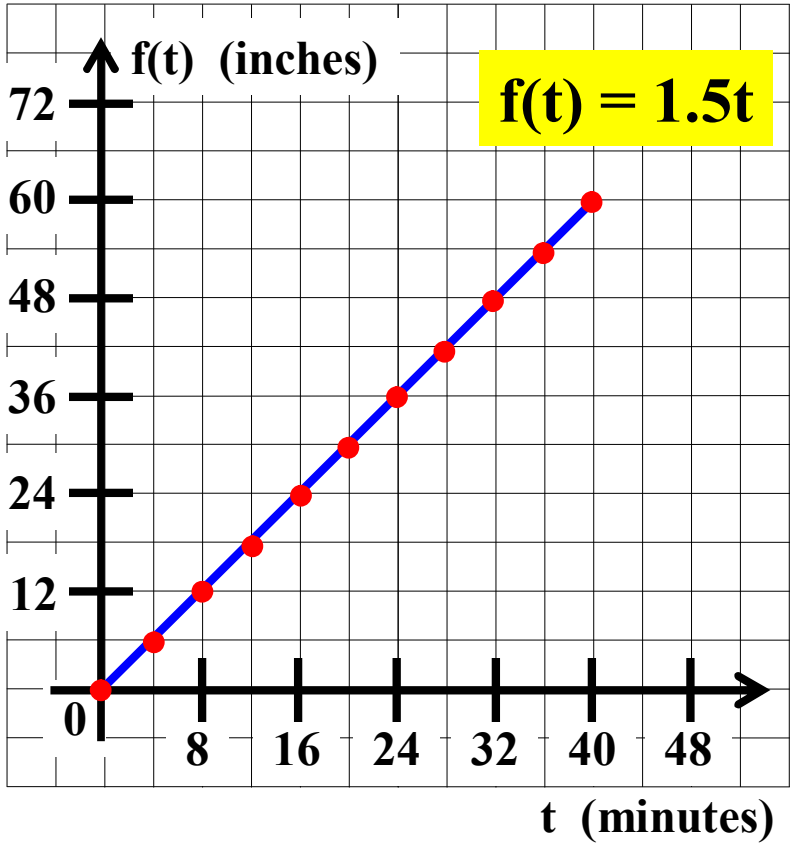
3. Graph function f.



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4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

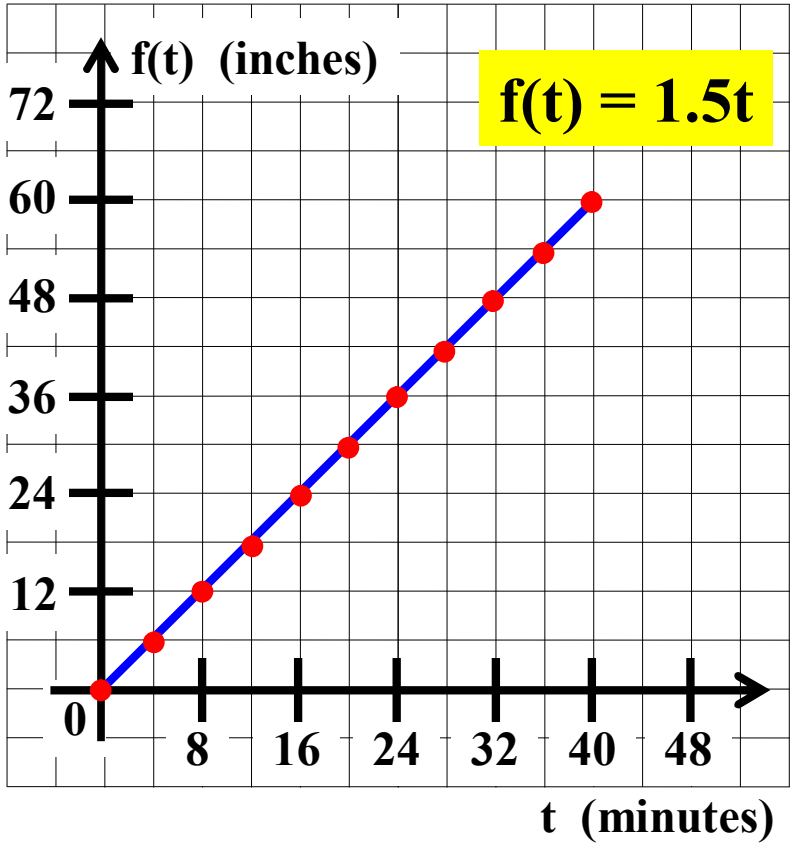
$0 \le f(t) \le 60$

7. Evaluate f(20).

What does f(20) represent in terms of the problem?

$f(20) = 30$

3. Graph function f.



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8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

$0 \le f(t) \le 60$

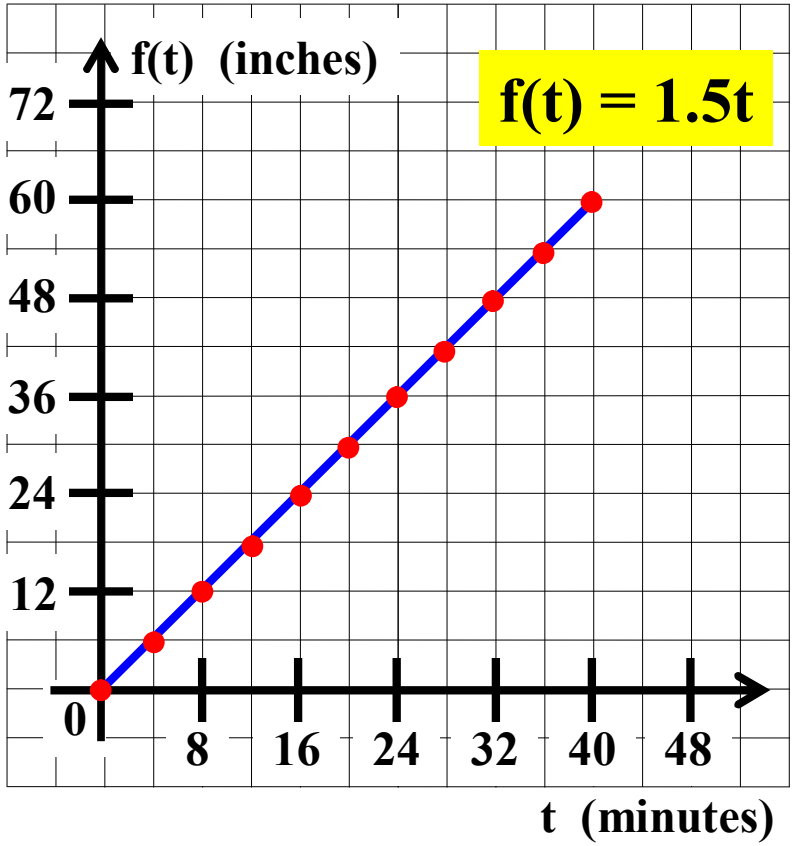
7. Evaluate f(20).

What does f(20) represent in terms of the problem?

$f(20) = 30$

f(20) represents

3. Graph function f.



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12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

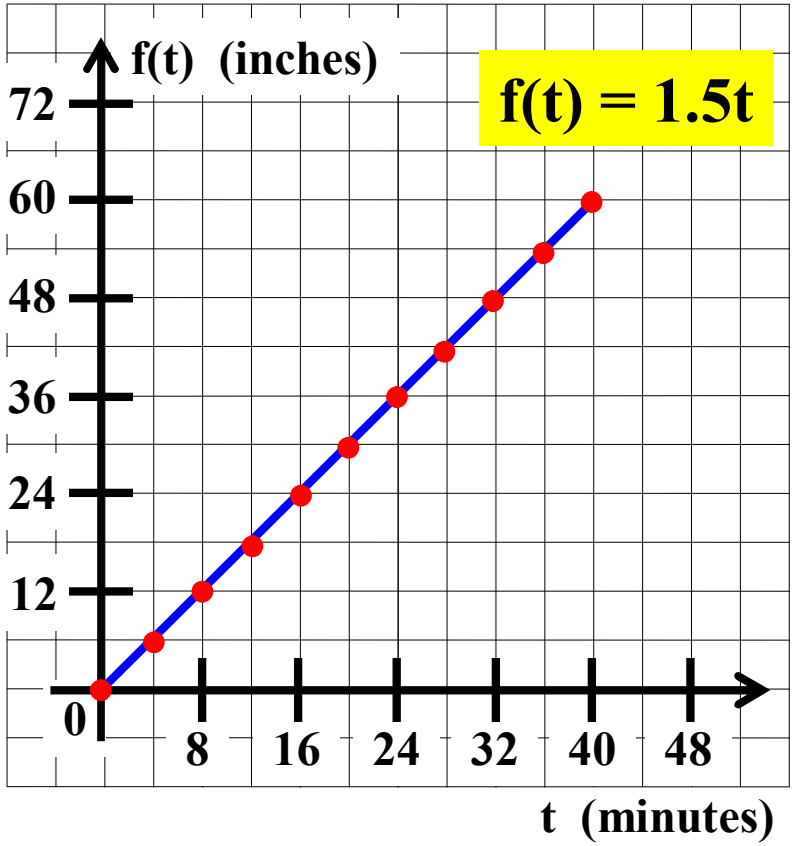
$0 \le f(t) \le 60$

7. Evaluate f(20).

What does f(20) represent in terms of the problem?

$f(20) = 30$

3. Graph function f.



f(20) represents the depth of the water

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0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

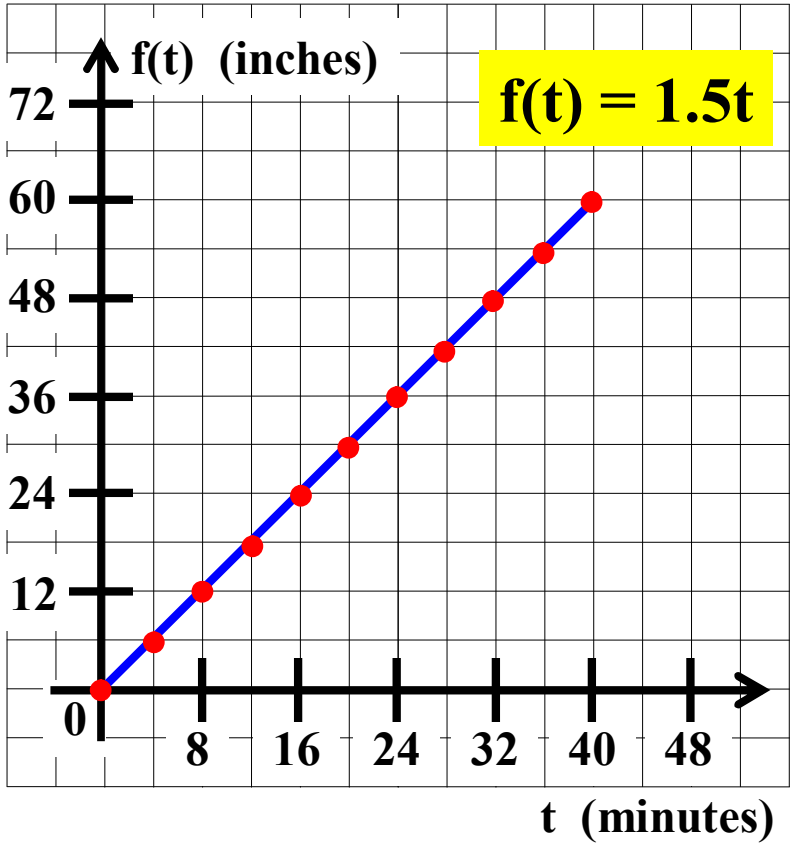
$0 \le f(t) \le 60$

7. Evaluate f(20).

What does f(20) represent in terms of the problem?

$f(20) = 30$

3. Graph function f.



f(20) represents the depth of the water after 20 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? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

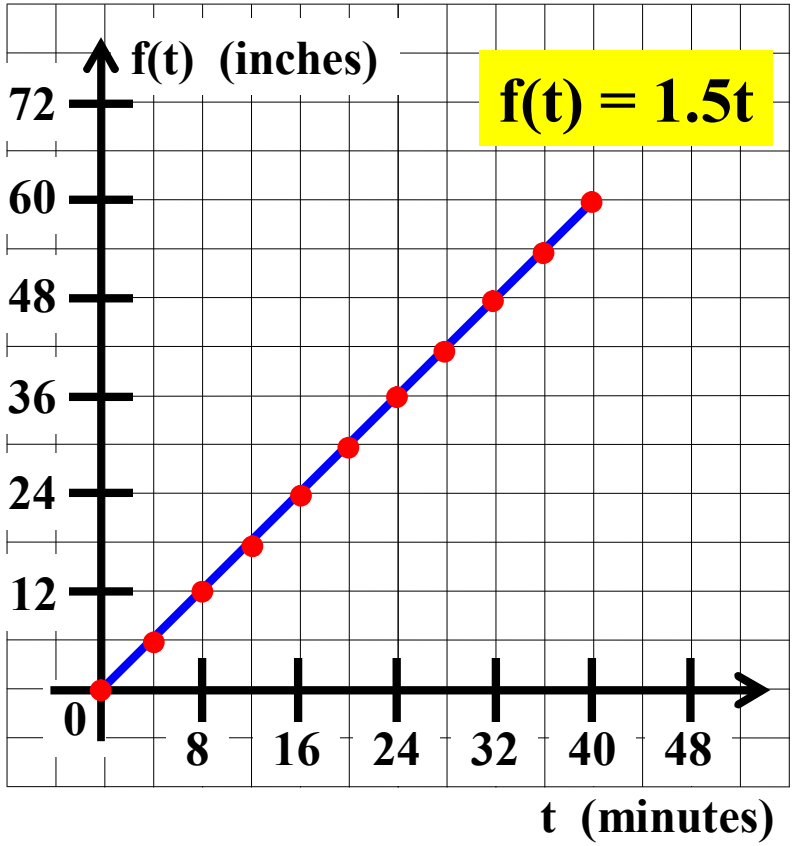
$0 \le f(t) \le 60$

7. Evaluate f(20).

What does f(20) represent in terms of the problem?

f(20) = 30 inches

3. Graph function f.



f(20) represents the depth of the water after 20 minutes.

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t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

$0 \le f(t) \le 60$

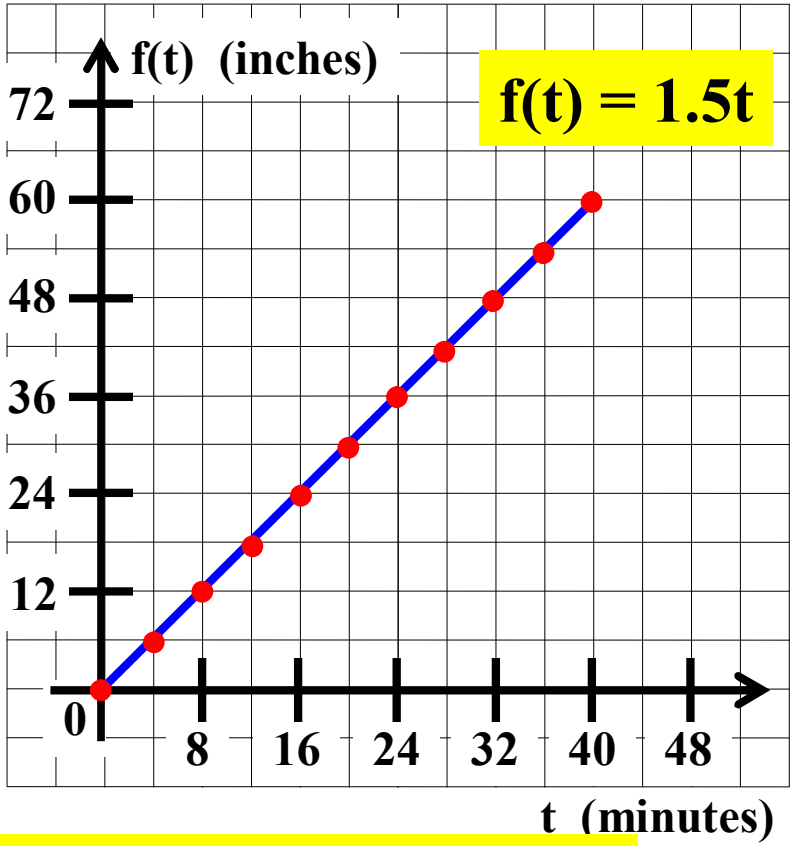
7. Evaluate f(20).

What does f(20) represent in terms of the problem?

f(20) = 30 inches

f(20) represents the depth of the water after 20 minutes.

3. Graph function f.



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t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

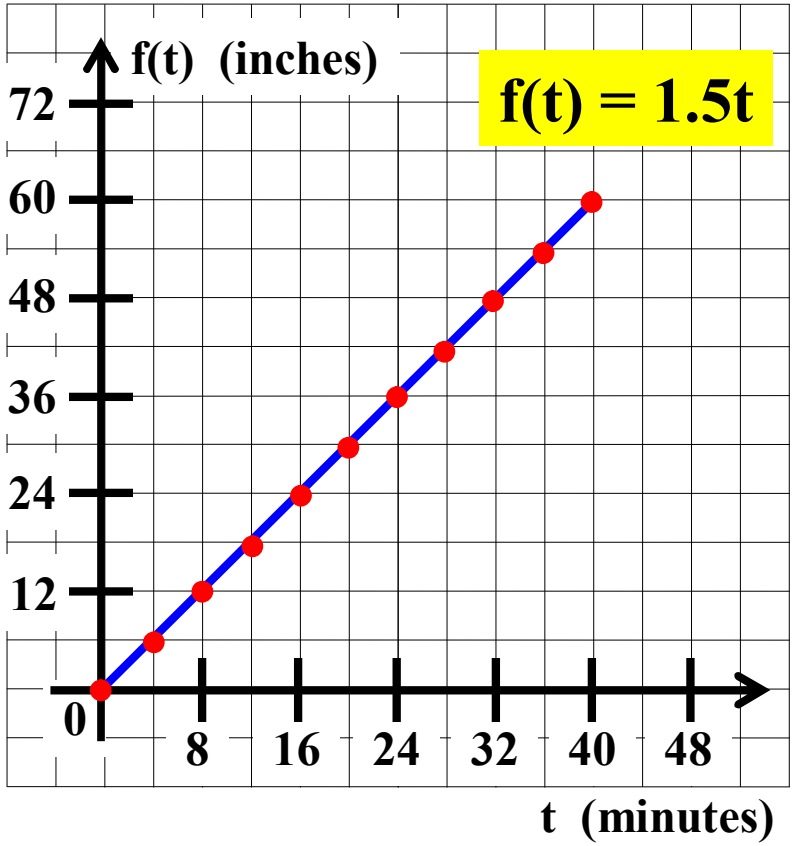
domain

$0 \le t \le 40$

range

$0 \le f(t) \le 60$

3. Graph function f.



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t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

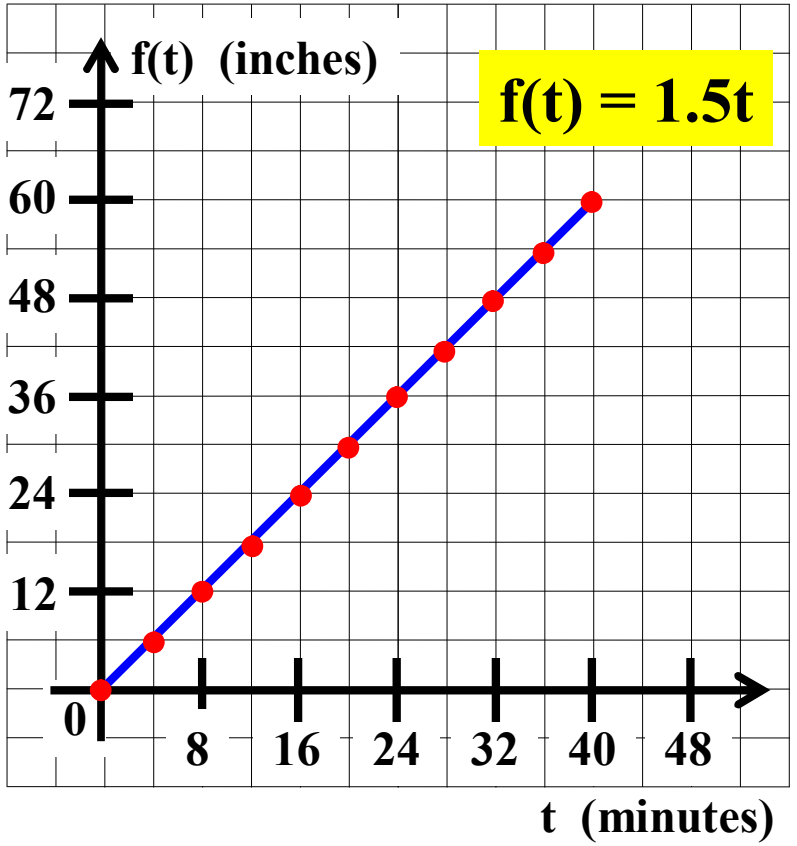
$0 \le t \le 40$

range

$0 \le f(t) \le 60$

8. If f(t) = 20, then find the value of t.

3. Graph function f.



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0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

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8. If f(t) = 20, then find the value of t.

$f(t) = 20$

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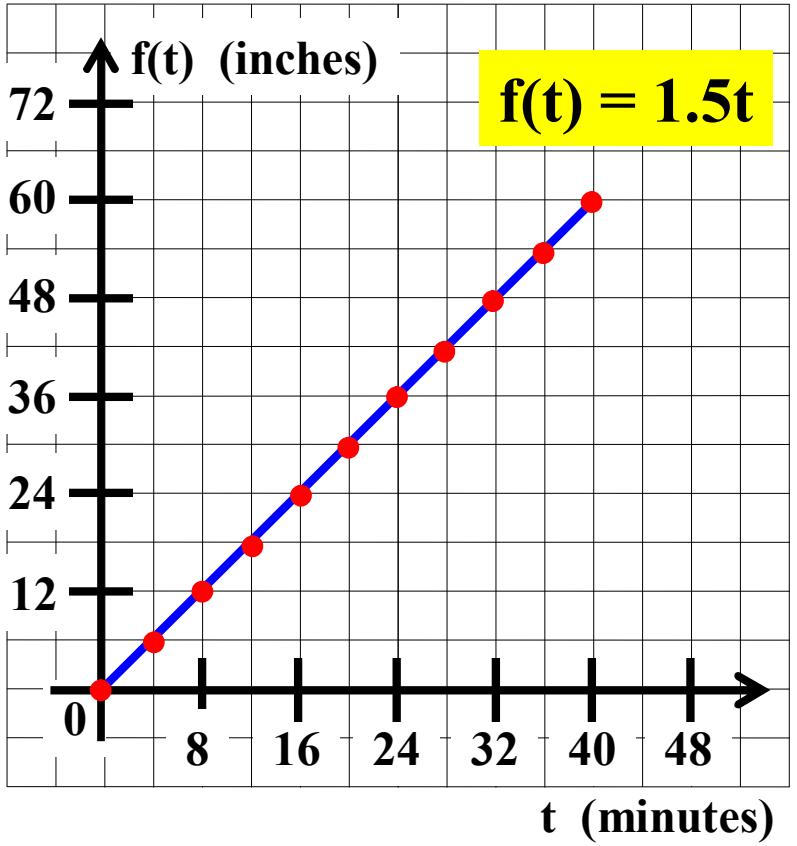

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4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

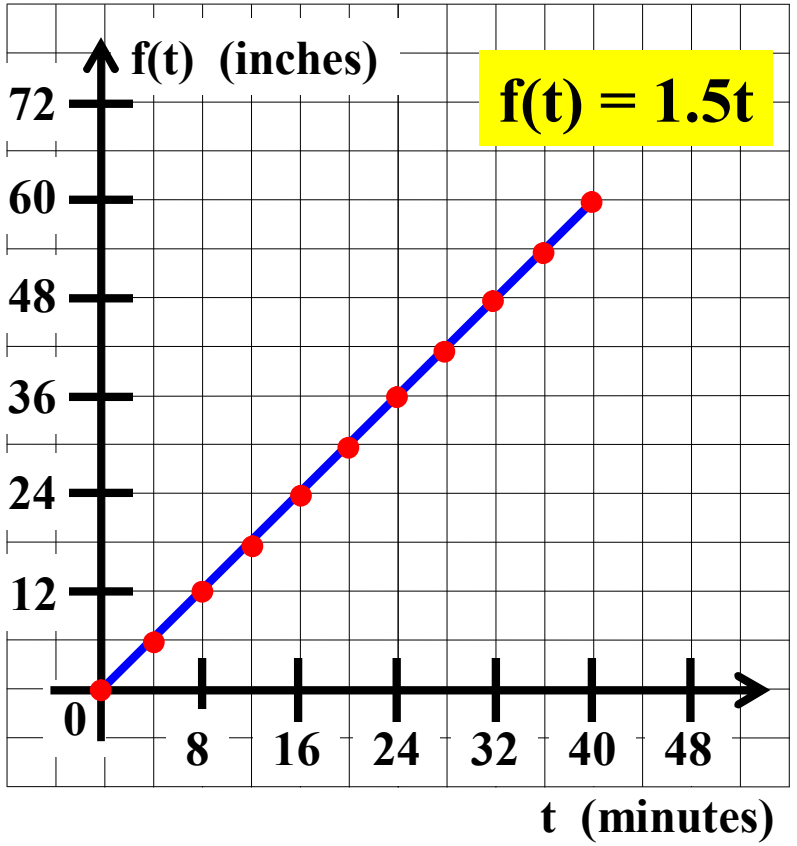
$0 \le f(t) \le 60$

8. If f(t) = 20, then find the value of t.

$f(t) = 20$

$1.5t = 20$

3. Graph function f.



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0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

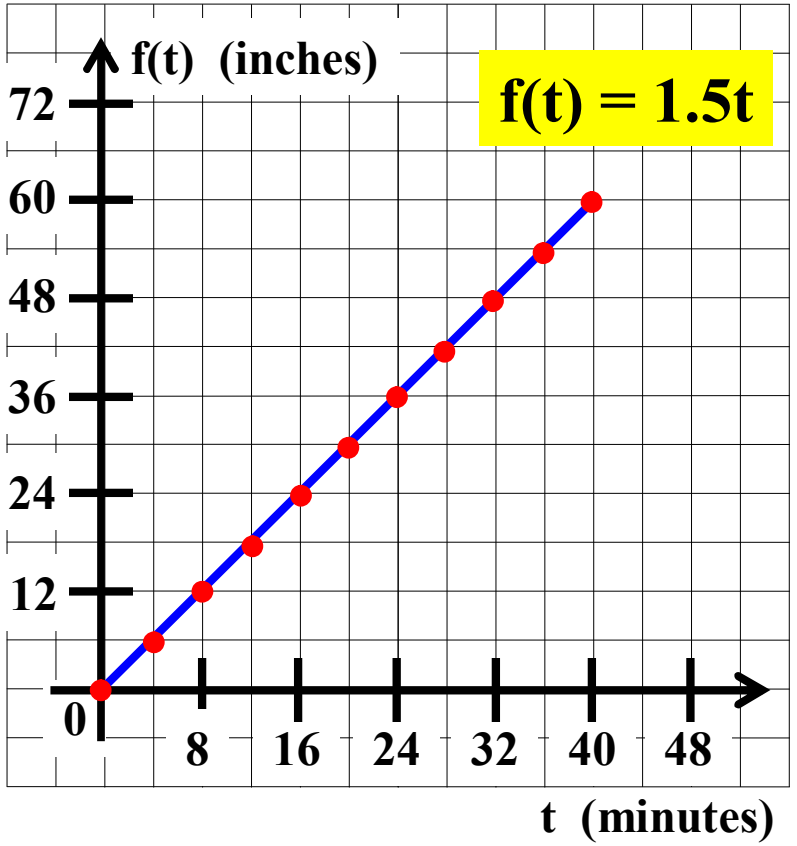
$0 \le f(t) \le 60$

8. If f(t) = 20, then find the value of t.

$f(t) = 20$ ⟶

$1.5t = 20$

3. Graph function f.



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0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

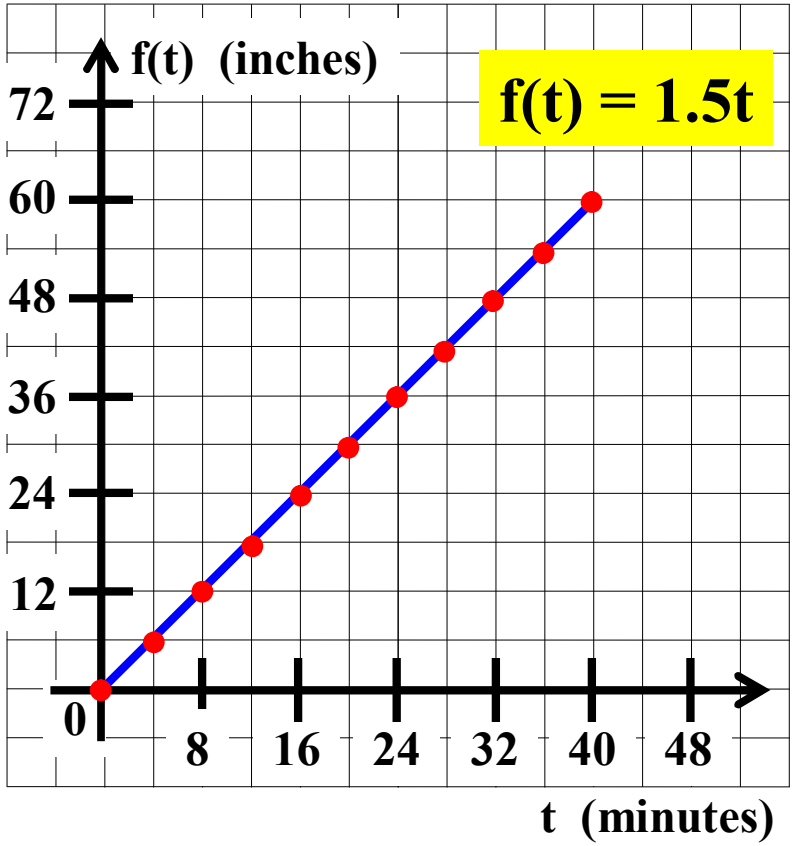
$0 \le f(t) \le 60$

8. If f(t) = 20, then find the value of t.

$f(t) = 20 \rightarrow t =$

$1.5t = 20$

3. Graph function f.



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t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

range

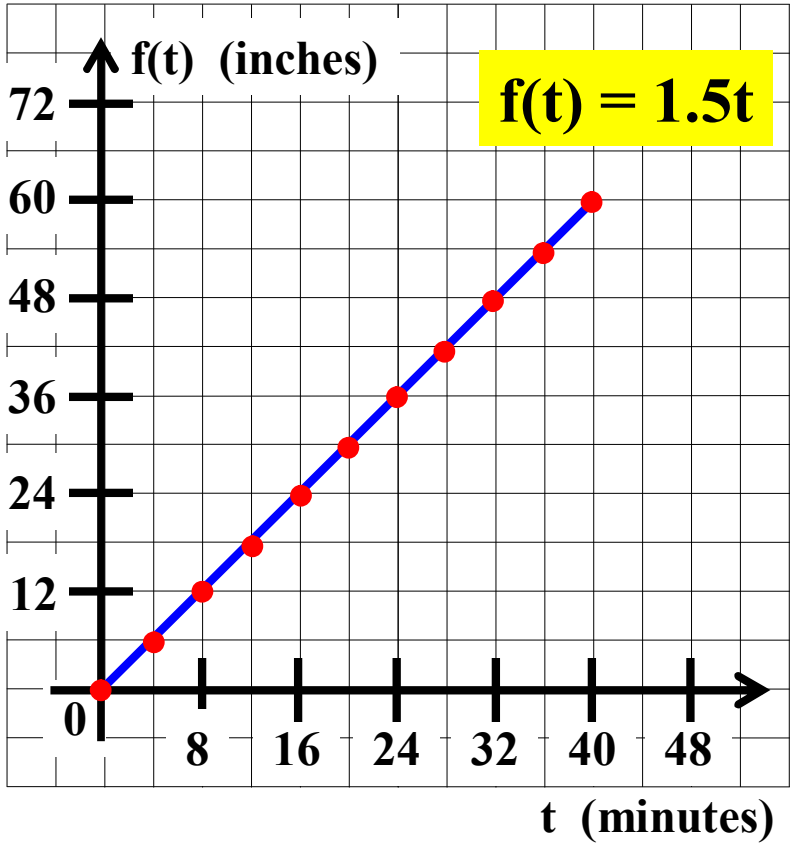
$0 \le f(t) \le 60$

8. If f(t) = 20, then find the value of t.

$f(t) = 20 \rightarrow t = 13\frac{1}{3}$

$1.5t = 20$

3. Graph function f.



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1. How long will it take to fill the tank? **40 minutes**

2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain

$0 \le t \le 40$

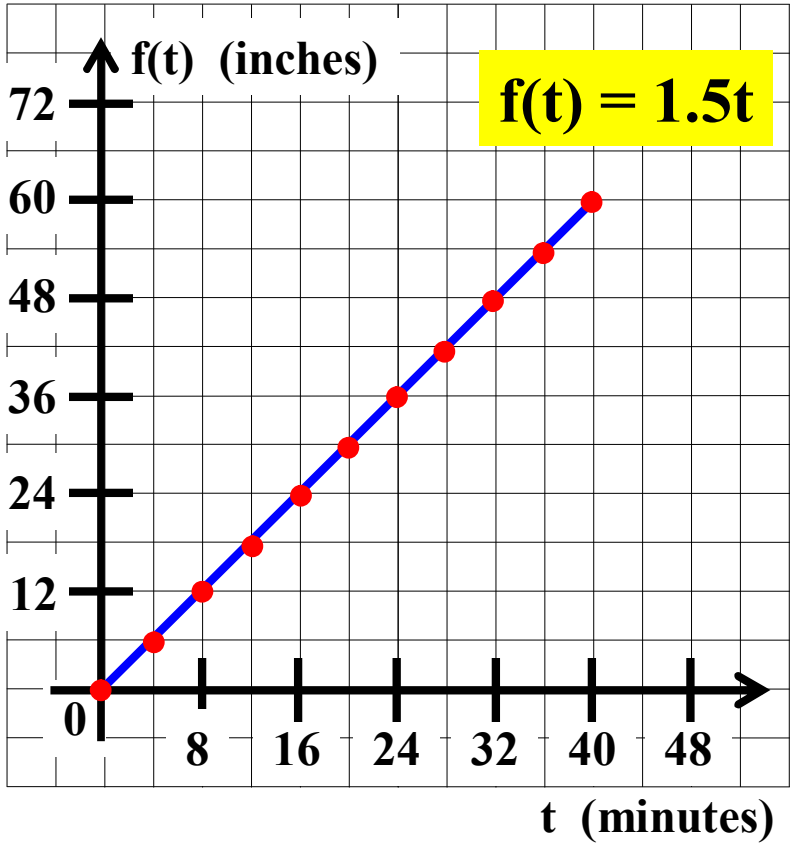
range

$0 \le f(t) \le 60$

8. If f(t) = 20, then find the value of t. What does this value of t represent in terms of the problem?

$f(t) = 20 \longrightarrow t = 13\frac{1}{3}$

3. Graph function f.



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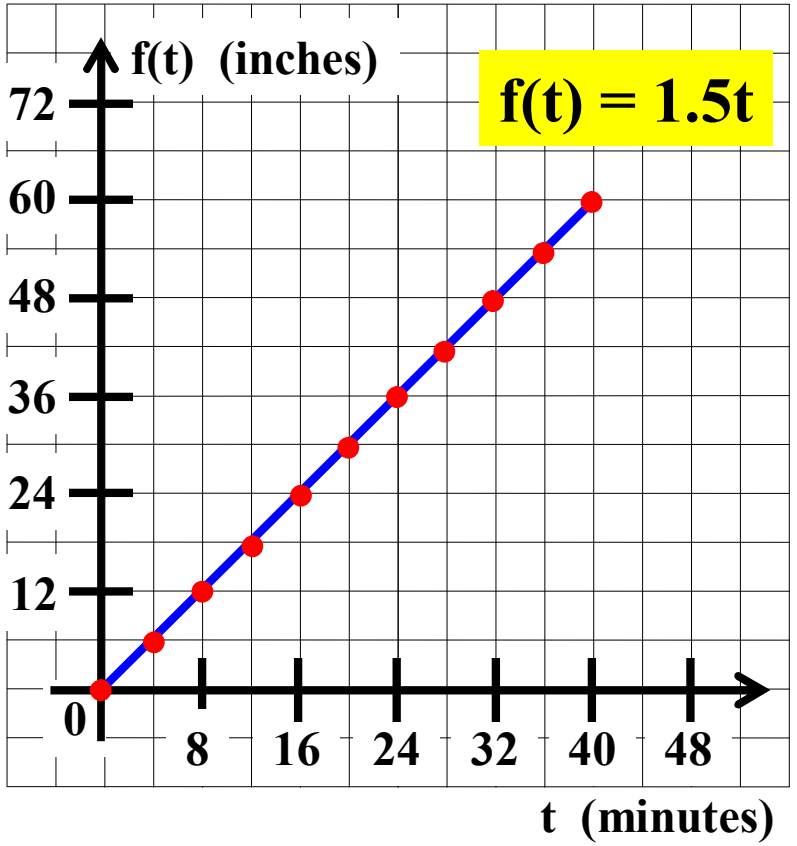

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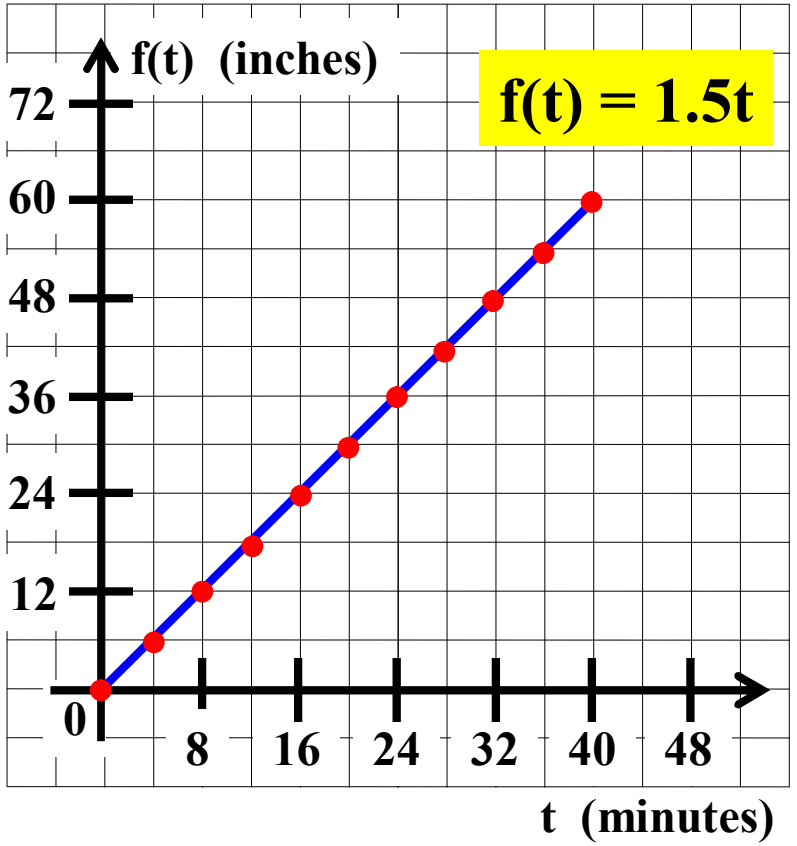

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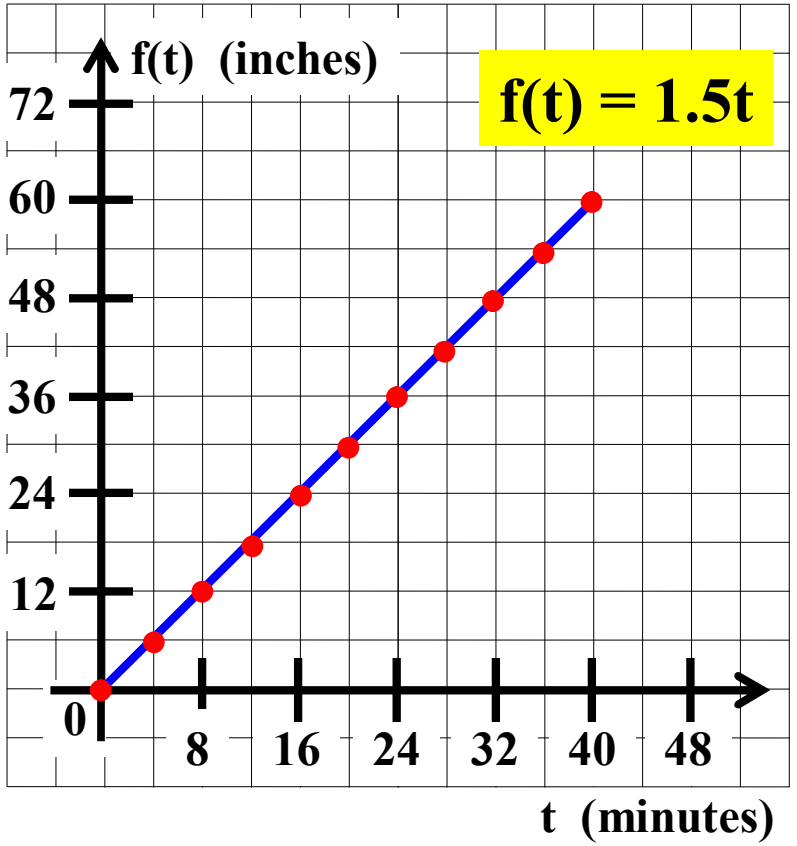

This represents the time it took for the water to be 20 inches deep.

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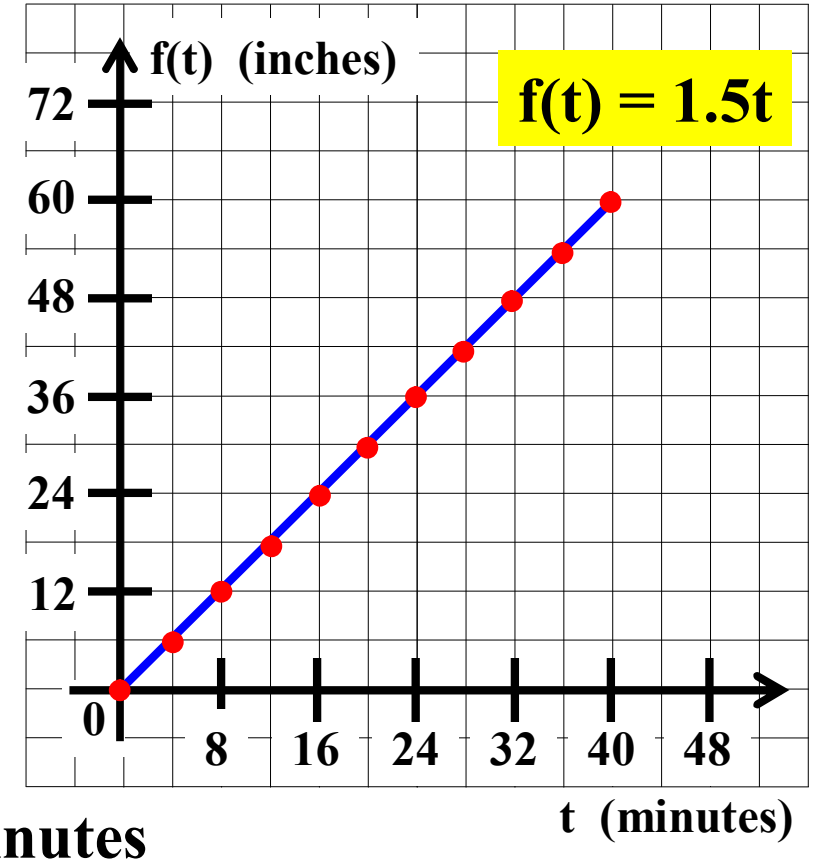

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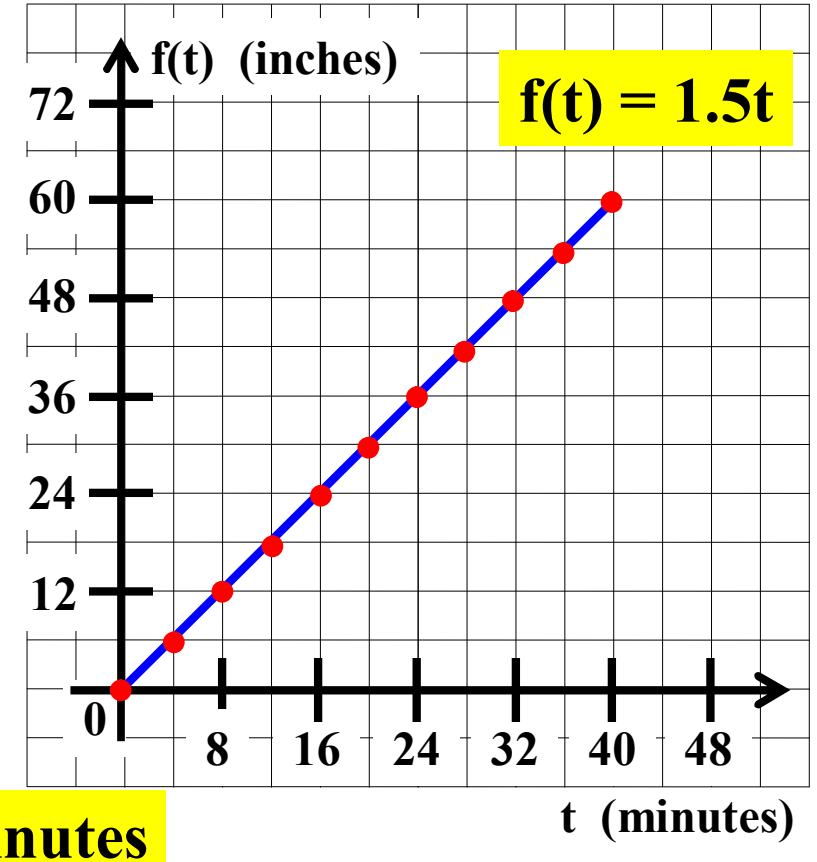

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9. How long will it take to empty the tank? _____

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$$V = LWH$$

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$$V = LWH$$

$$V = (6\text{ ft.})(4\text{ ft.})(5\text{ ft.})$$

$$V = 120$$

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

V = LWH

V = (6 ft.)(4 ft.)(5 ft.)

V = 120 cu. ft.

Time =

Algebra I Class Worksheet #5 Unit 8

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

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

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V = LWH

V = (6 ft.)(4 ft.)(5 ft.)

V = 120 cu. ft.

Time = 120 cu. ft. ÷ 8 cu. ft. per min.

Time =

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

V = LWH

V = (6 ft.)(4 ft.)(5 ft.)

V = 120 cu. ft.

Time = 120 cu. ft. ÷ 8 cu. ft. per min.

Time = 15 minutes

Algebra I Class Worksheet #5 Unit 8

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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? **15 minutes**

$$V = LWH$$

$$V = (6 \text{ ft.})(4 \text{ ft.})(5 \text{ ft.})$$

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

$$\text{Time} = 120 \text{ cu. ft.} \div 8 \text{ cu. ft. per min.}$$

$$\text{Time} = 15 \text{ minutes}$$

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3	
6	
9	
12	
15	

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When t = 0,

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When t = 0, the tank is full.

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t	F(t)
0	
3	
6	
9	
12	
15	

When t = 0, the tank is full.
The water is 60 inches deep.

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0	60
3	
6	
9	
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The water is 60 inches deep.

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The water is 60 inches deep.

When t = 15, the tank is empty.

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15	0

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The water is 0 inches deep.

Algebra I Class Worksheet #5 Unit 8

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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? **15 minutes**

10. Make a table giving t and F(t) every 3 minutes from t = 0 until the tank is empty.

t	F(t)
0	60
3	
6	
9	
12	
15	0

When t = 0, the tank is full.
The water is 60 inches deep.

When t = 15, the tank is empty.
The water is 0 inches deep.

Algebra I Class Worksheet #5 Unit 8

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The water depth decreases 60 inches

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The water depth decreases 60 inches in 15 minutes.

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The water depth decreases 60 inches in 15 minutes.

It decreases at 4 inches per minute.

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The water depth decreases 60 inches in 15 minutes.

It decreases at 4 inches per minute.

It decreases 12 inches every 3 minutes.

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9. How long will it take to empty the tank? **15 minutes**

10. Make a table giving t and F(t) every 3 minutes from t = 0 until the tank is empty.

t	F(t)
0	60
3	48
6	
9	
12	
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The water depth decreases 60 inches in 15 minutes.

It decreases at 4 inches per minute.

It decreases 12 inches every 3 minutes.

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A rectangular water tank is 6 feet long, 4 feet wide, and 5 feet deep. The tank is full initially and water is drained out of the tank at 8 cubic feet per minute until the tank is empty.
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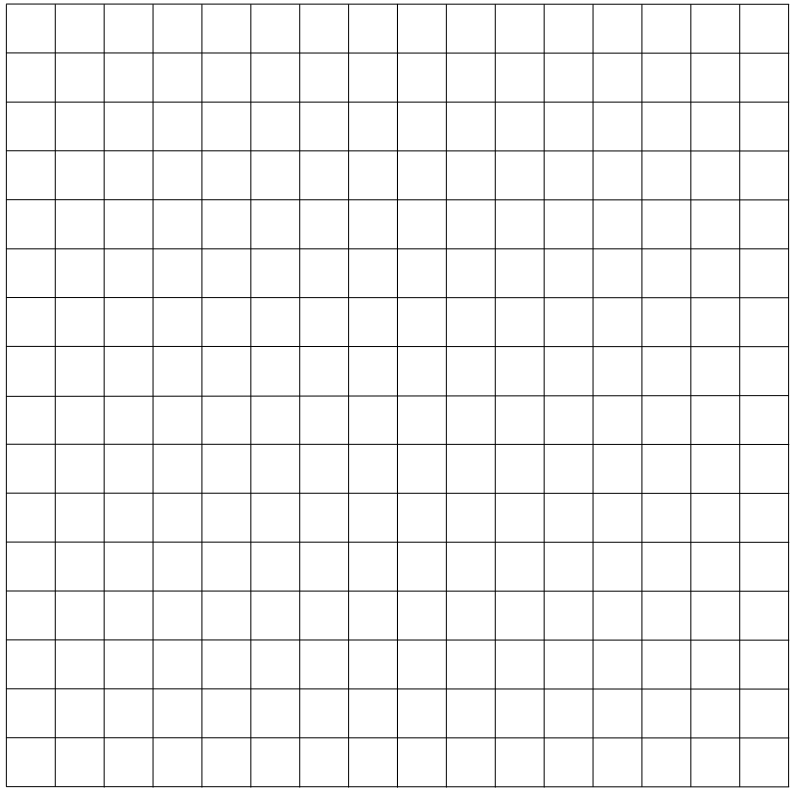
11. Graph function F.



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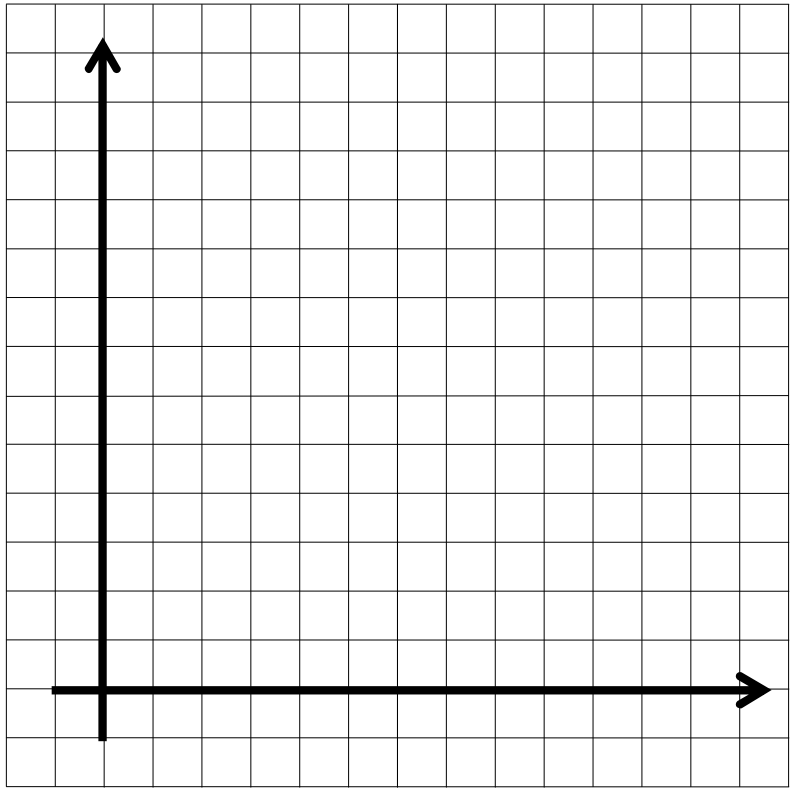

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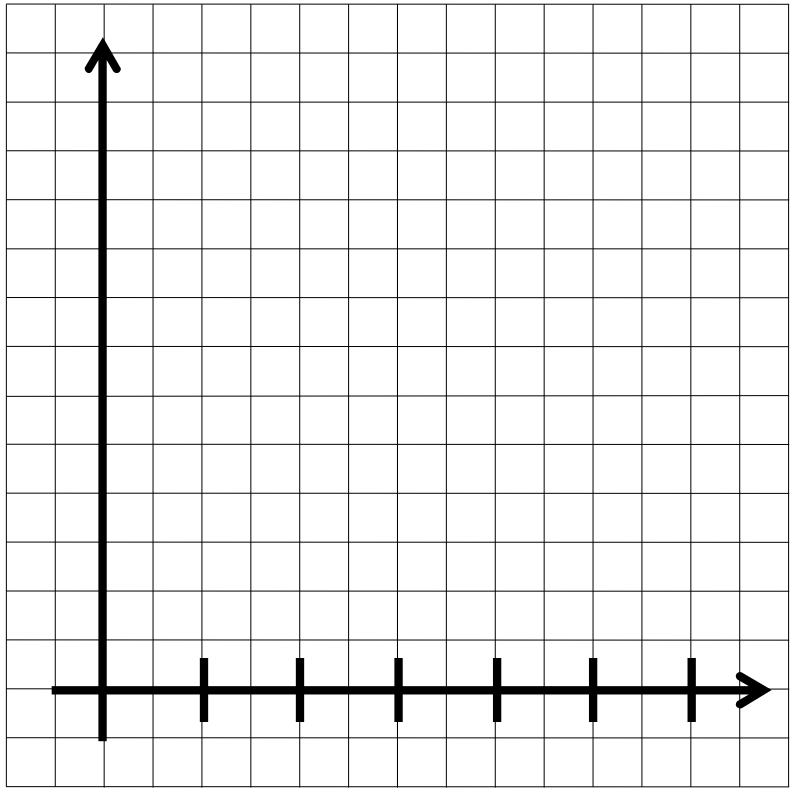

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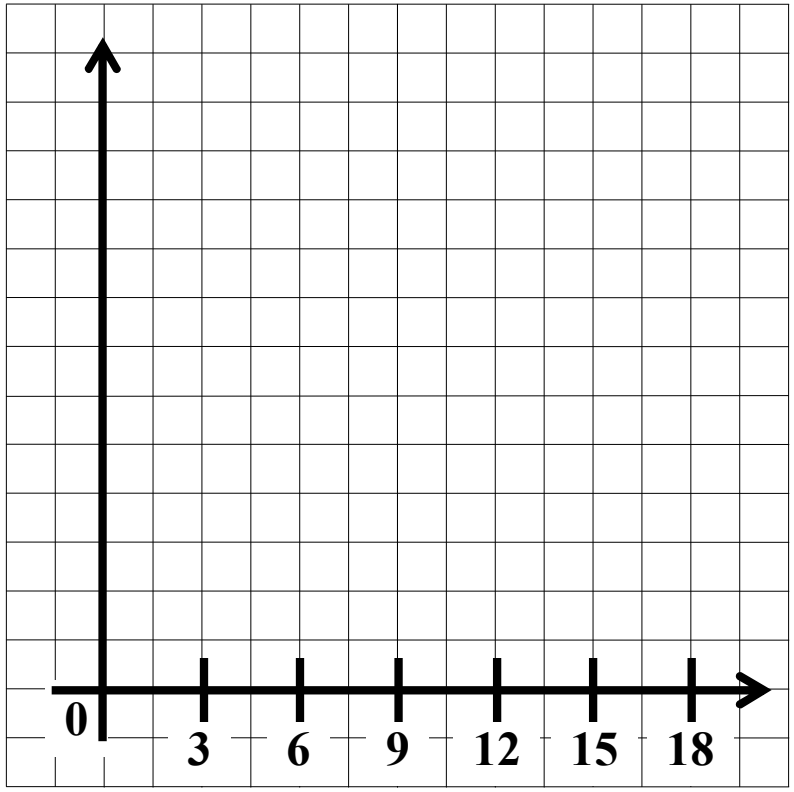

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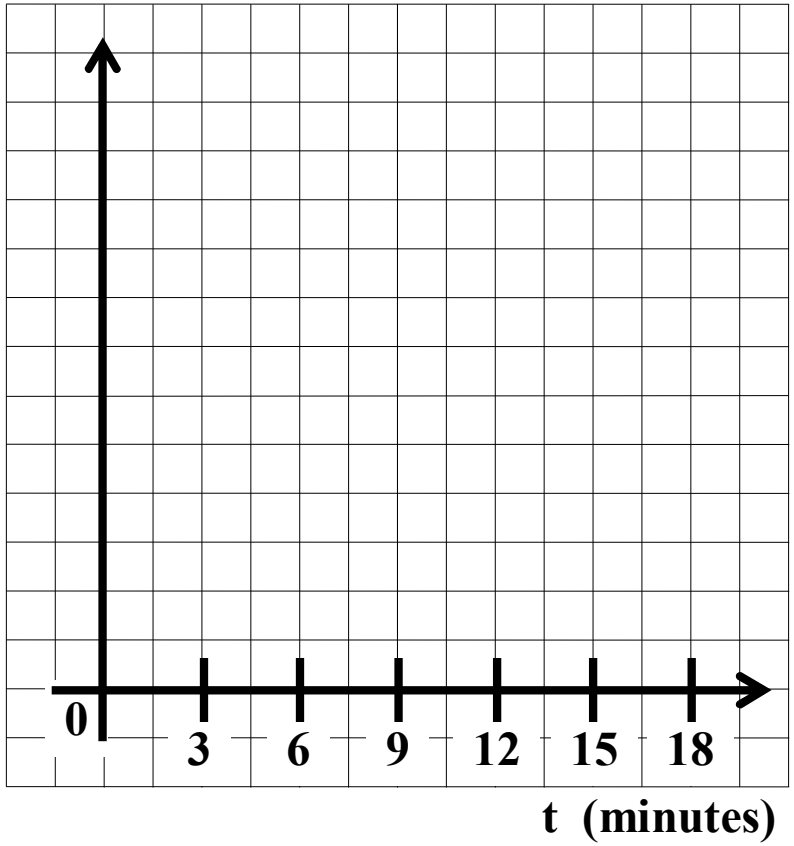

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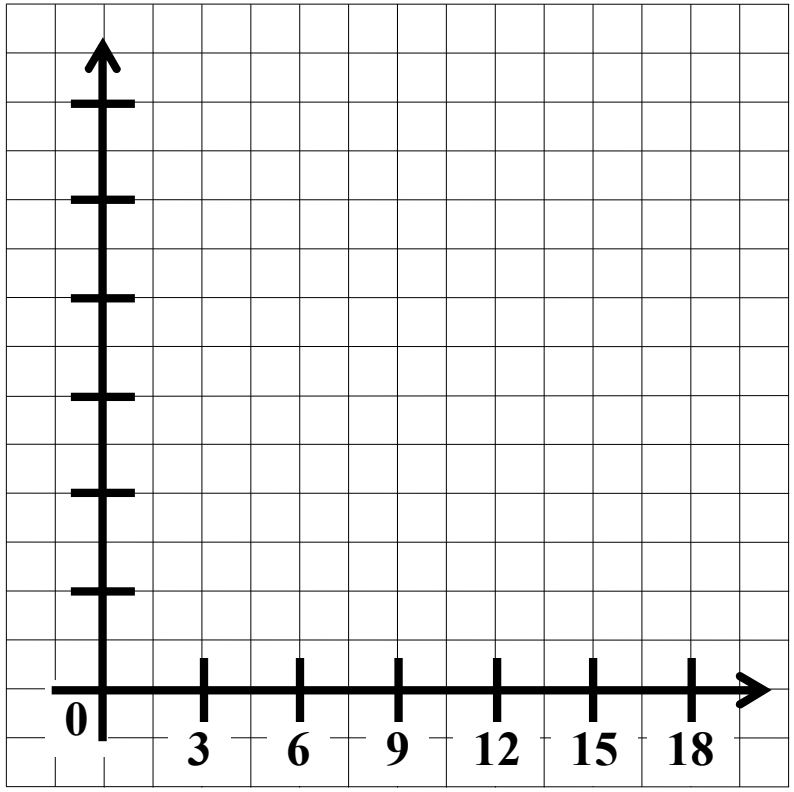

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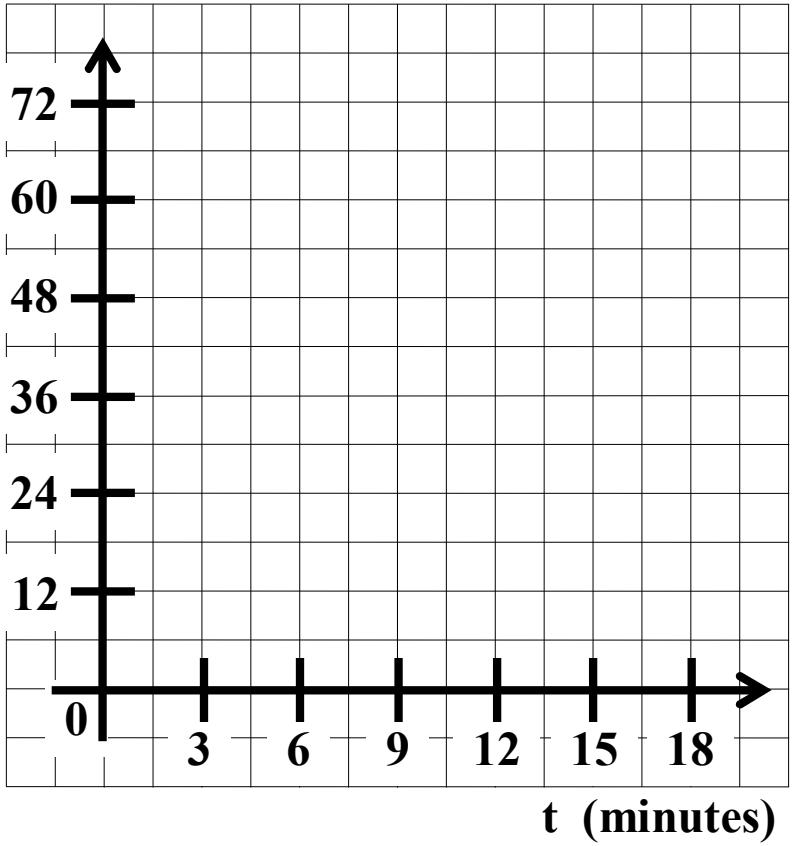

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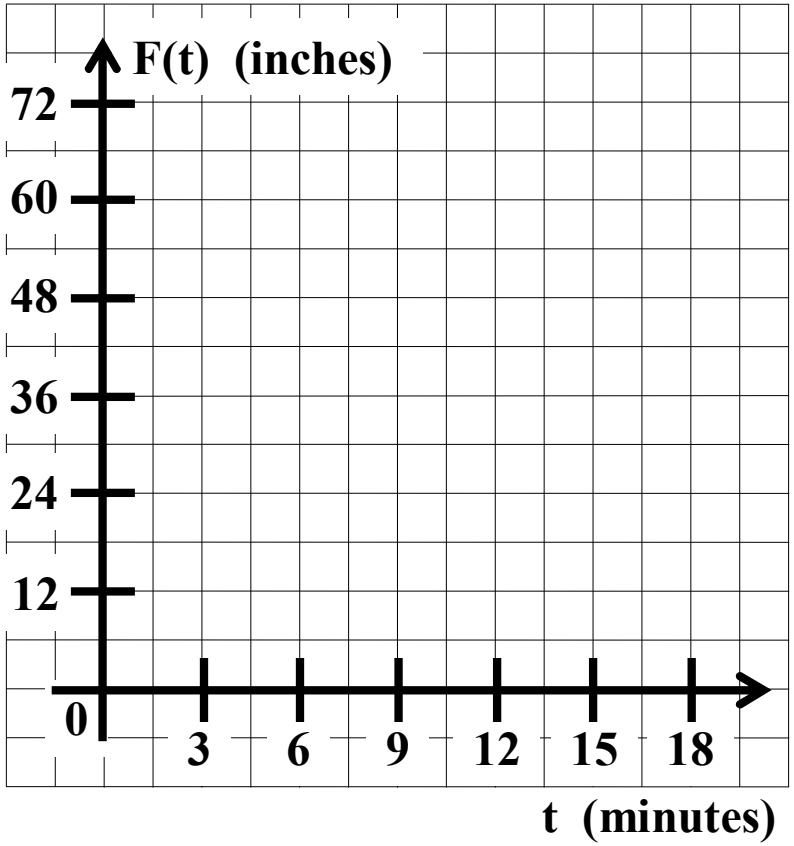

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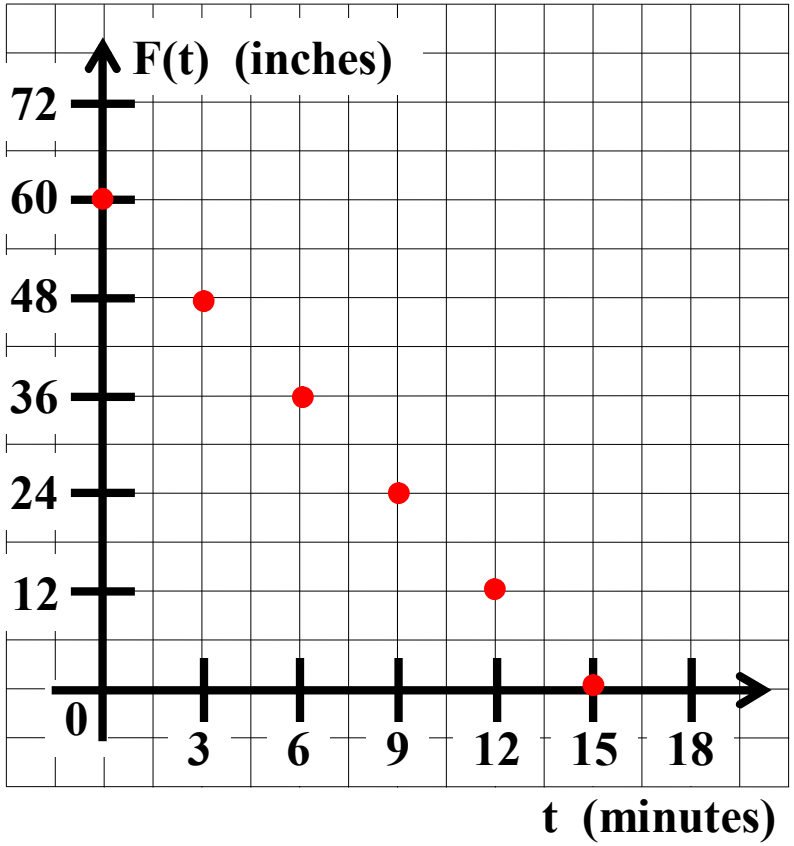

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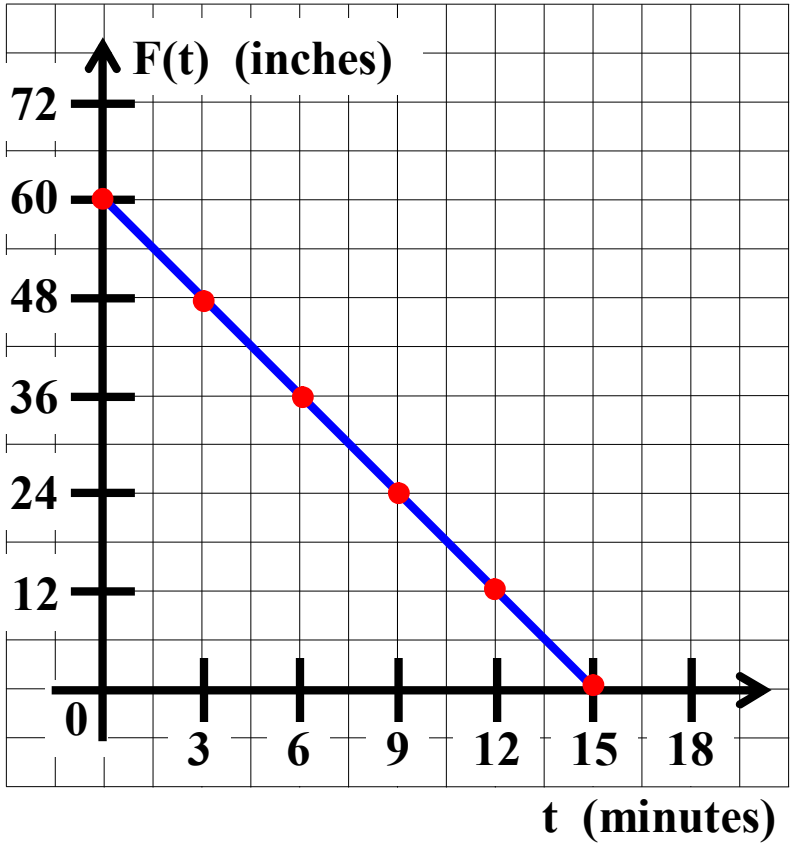

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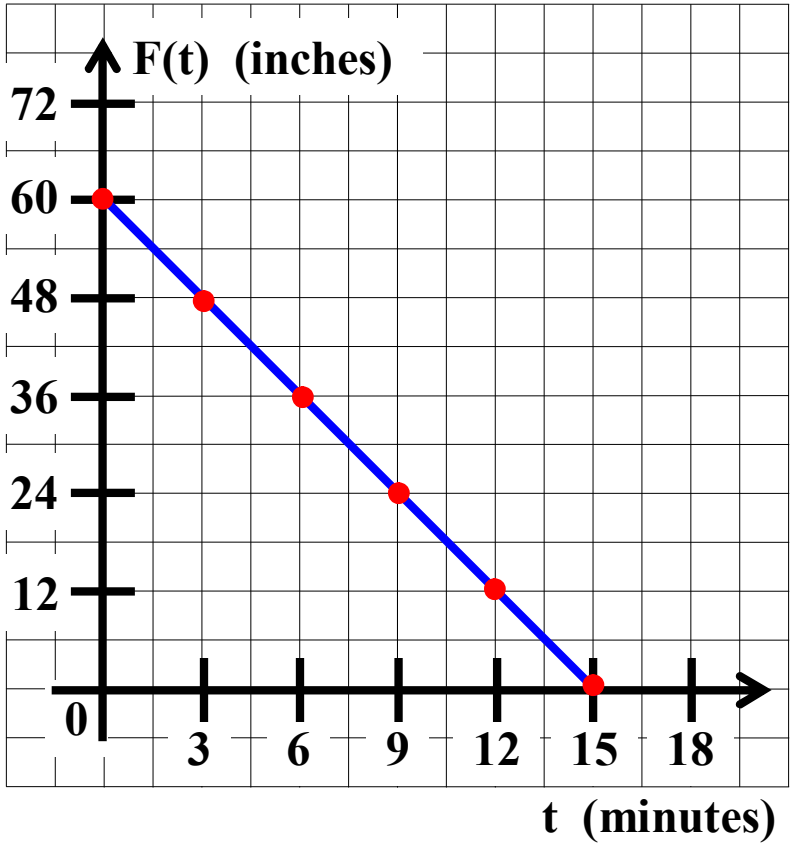

12. Write an equation giving F(t) in terms of t.

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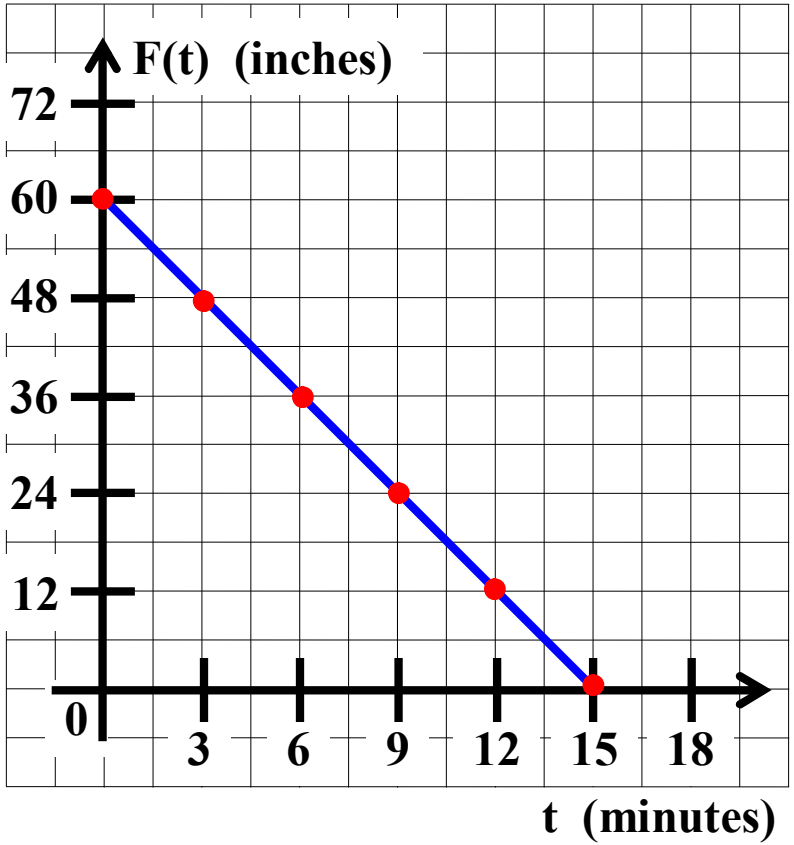

12. Write an equation giving F(t) in terms of t. $F(t) =$

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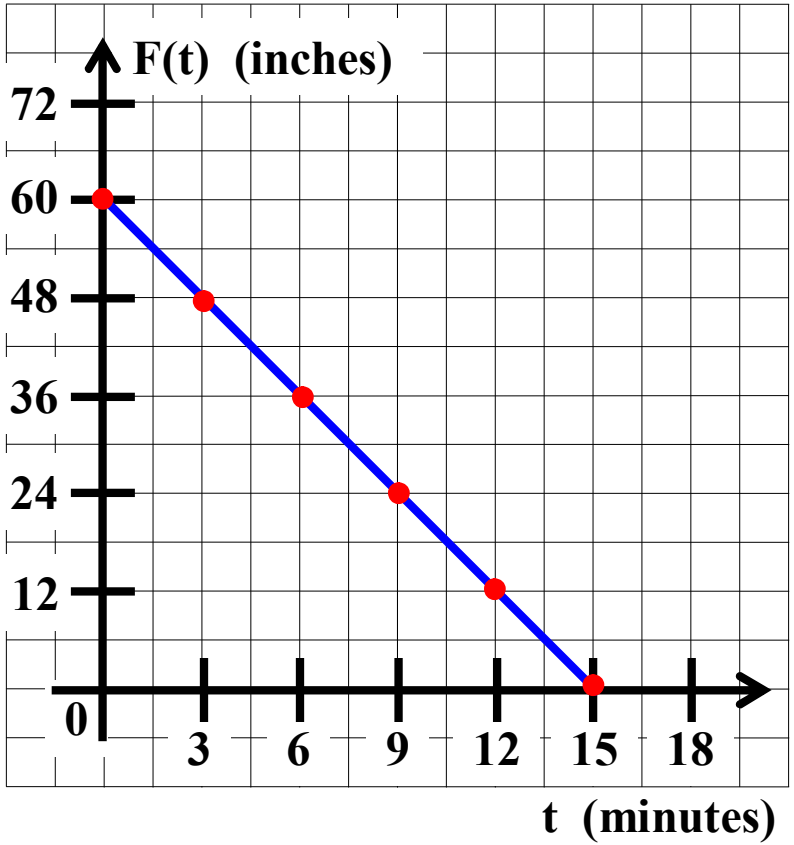

12. Write an equation giving F(t) in terms of t. $F(t) = -4t$

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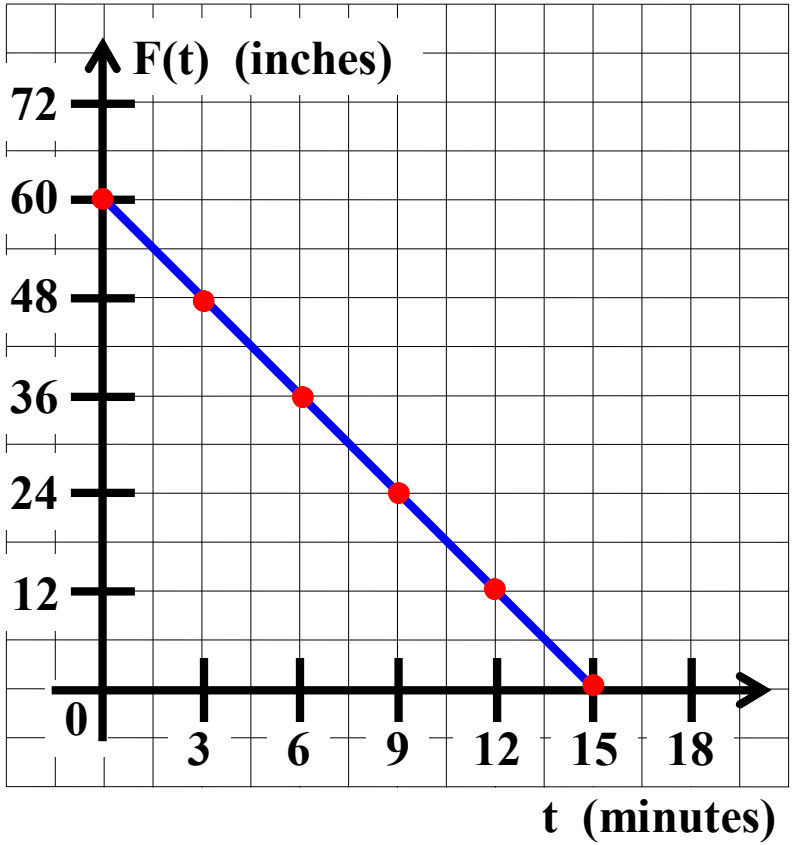

12. Write an equation giving F(t) in terms of t. $F(t) = -4t +$

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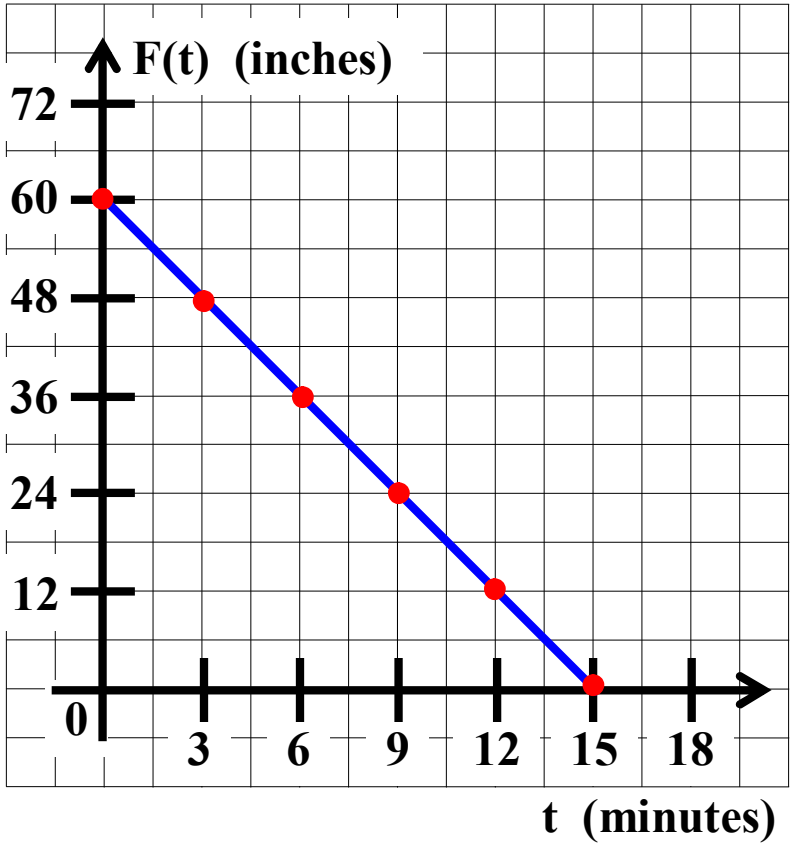

12. Write an equation giving F(t) in terms of t. $F(t) = -4t + 60$

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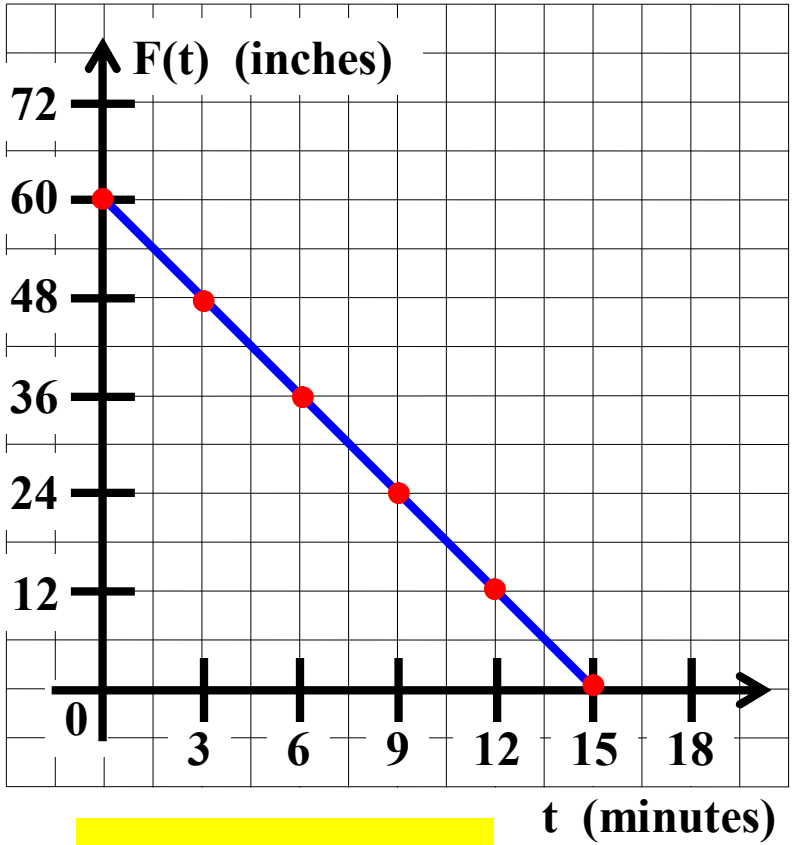

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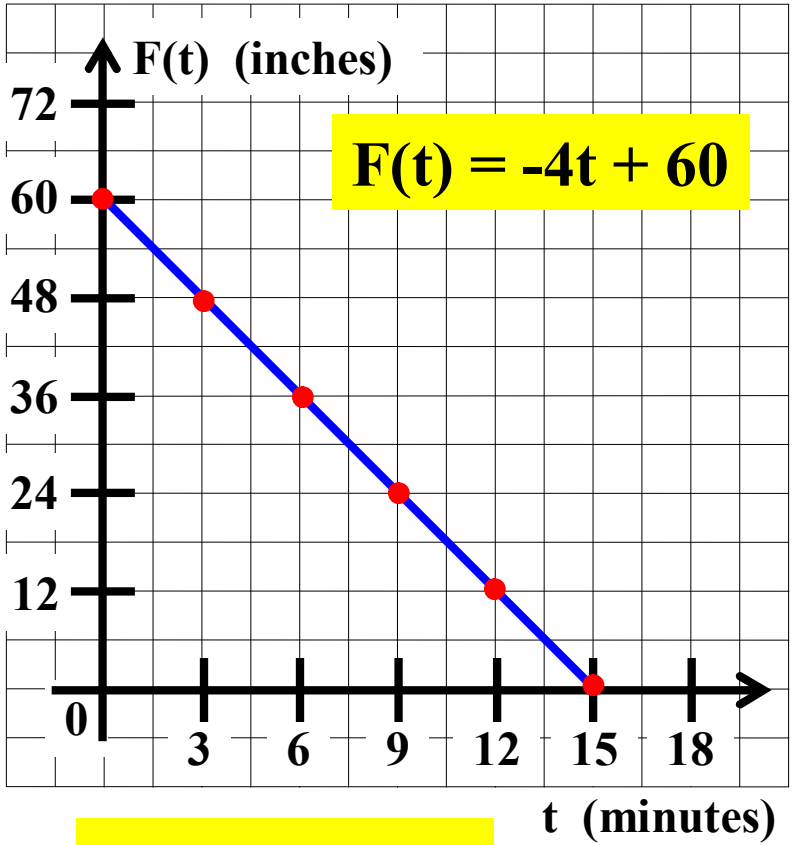

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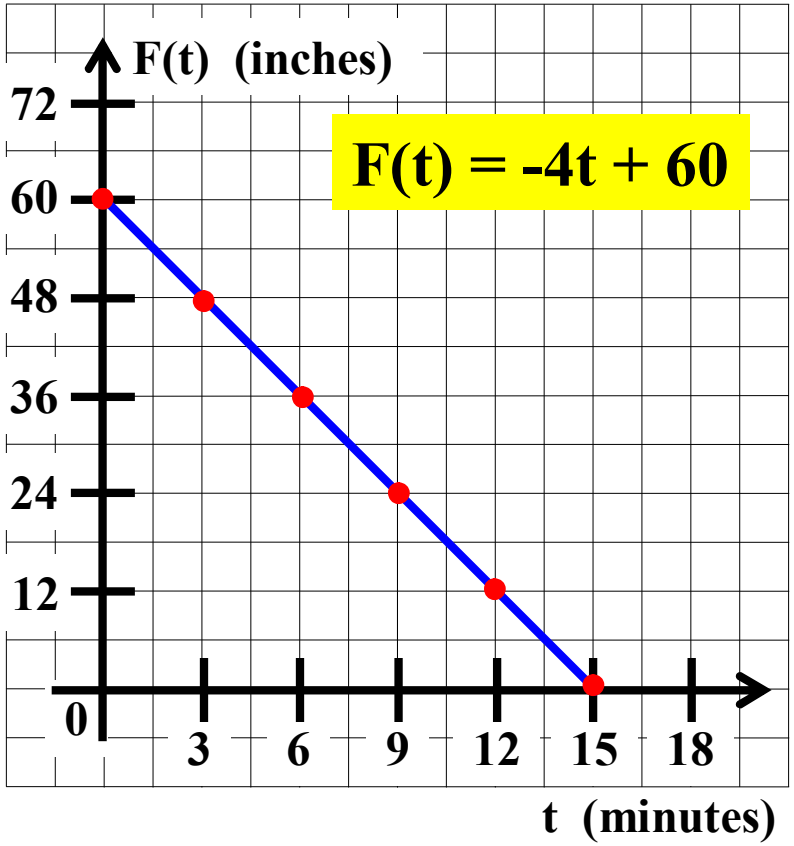

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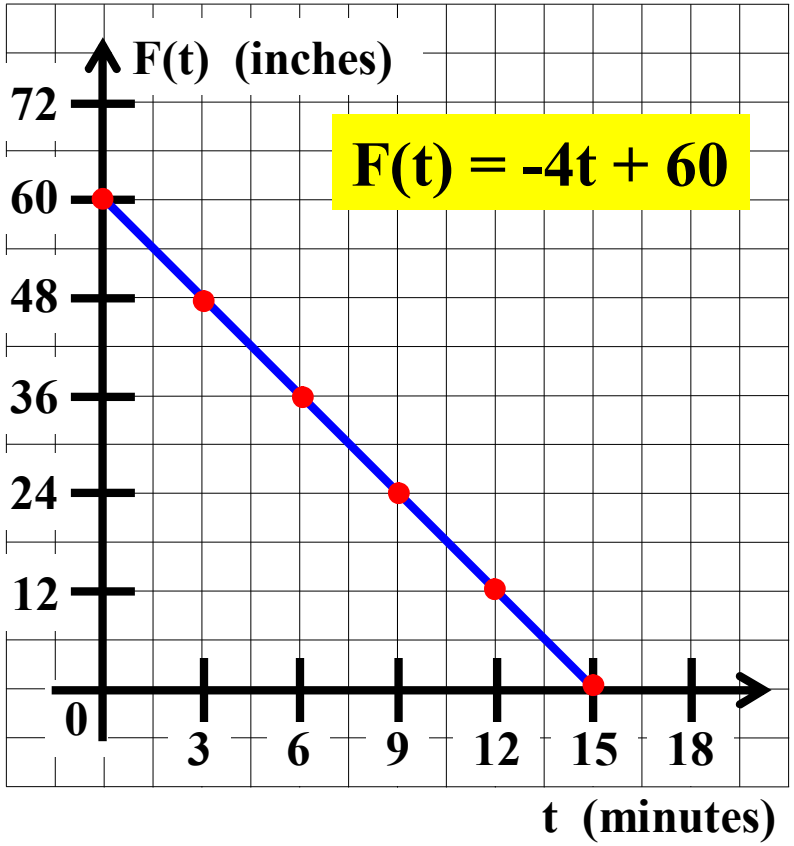

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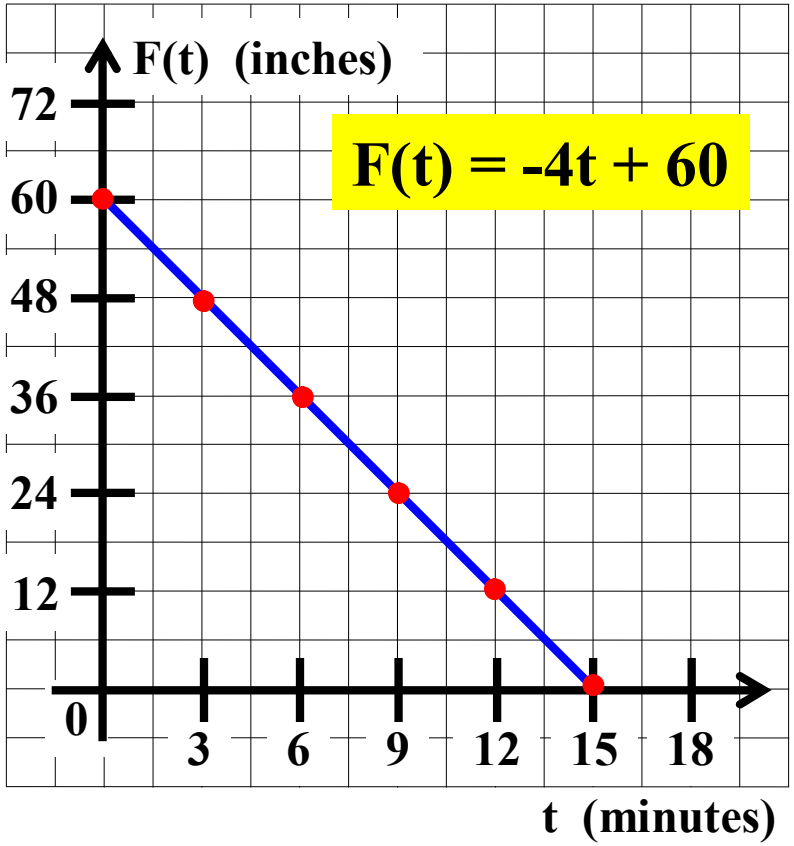

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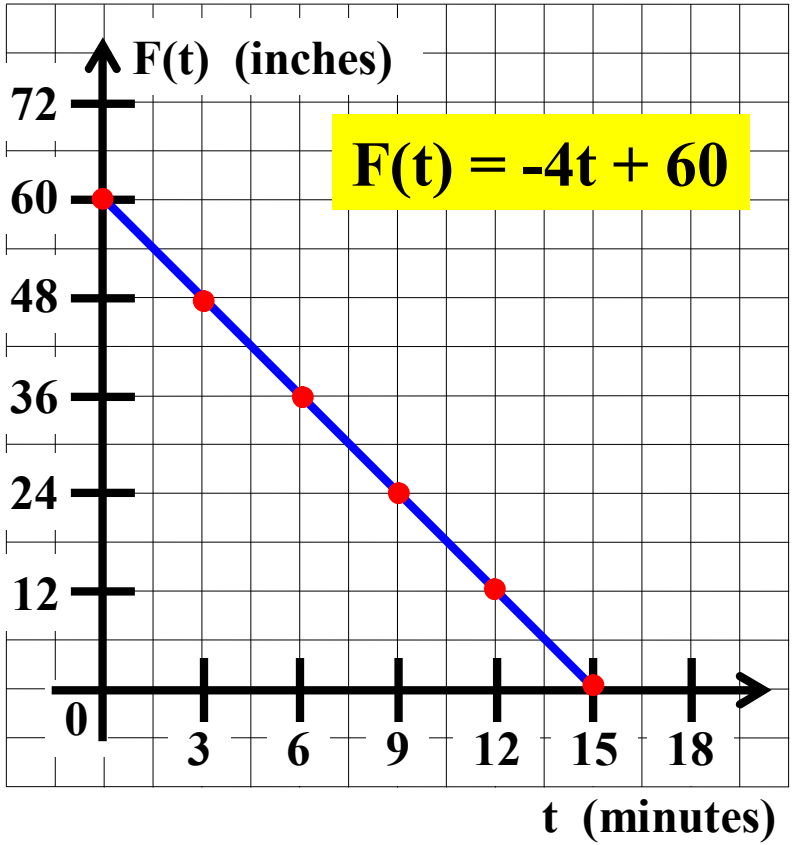

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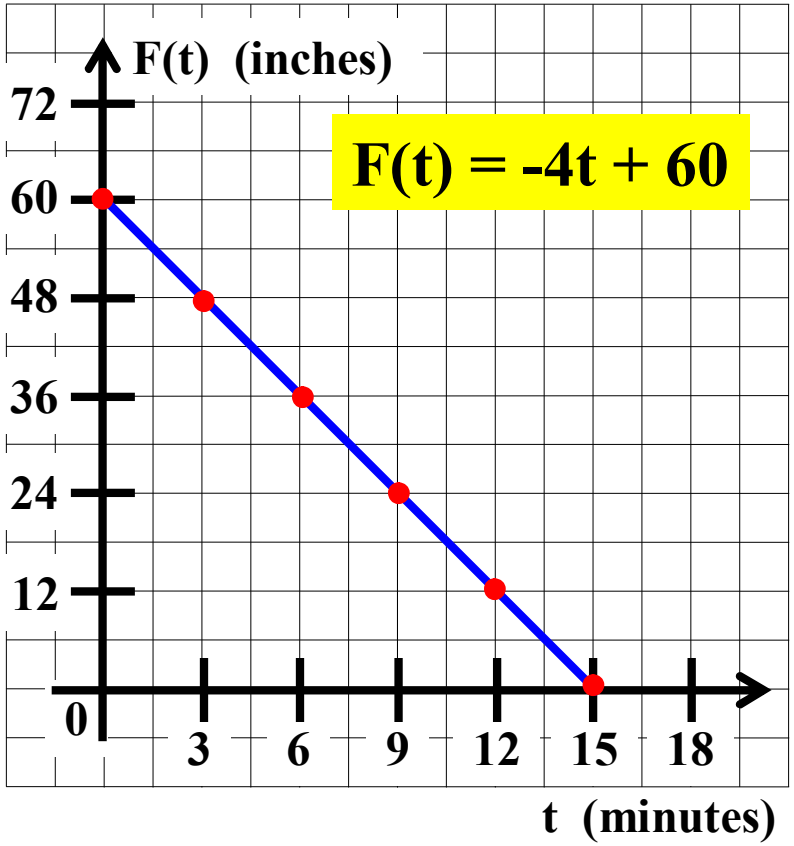

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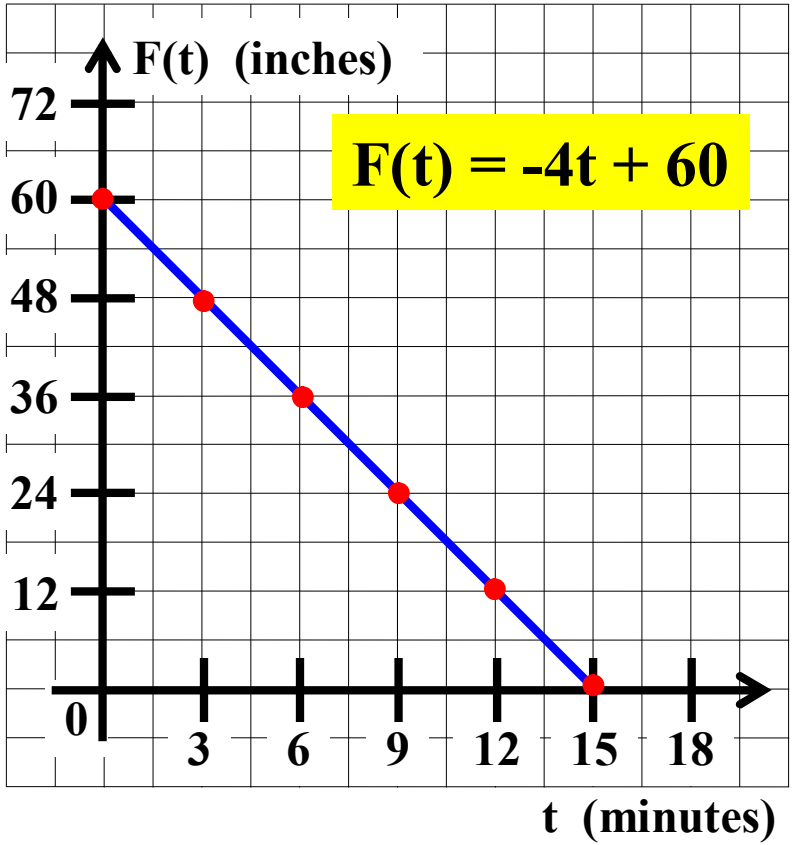

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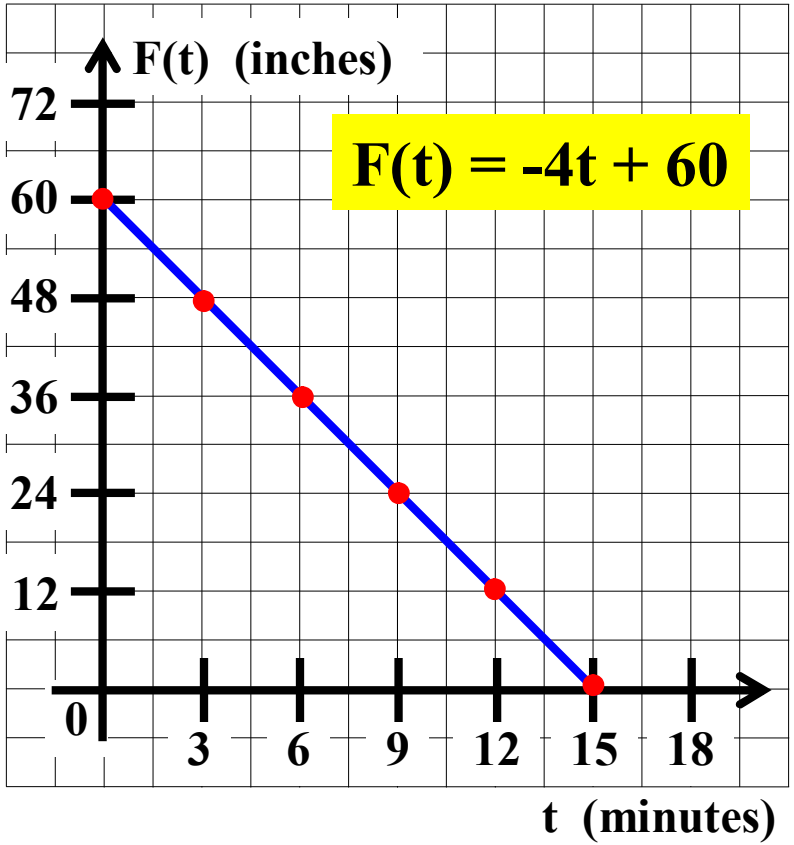

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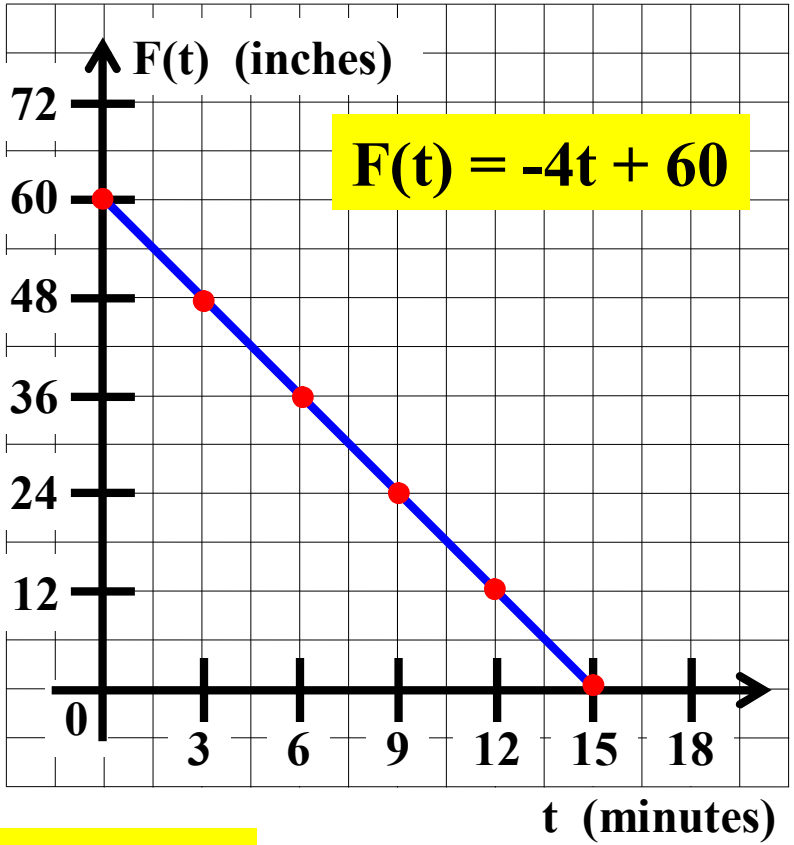

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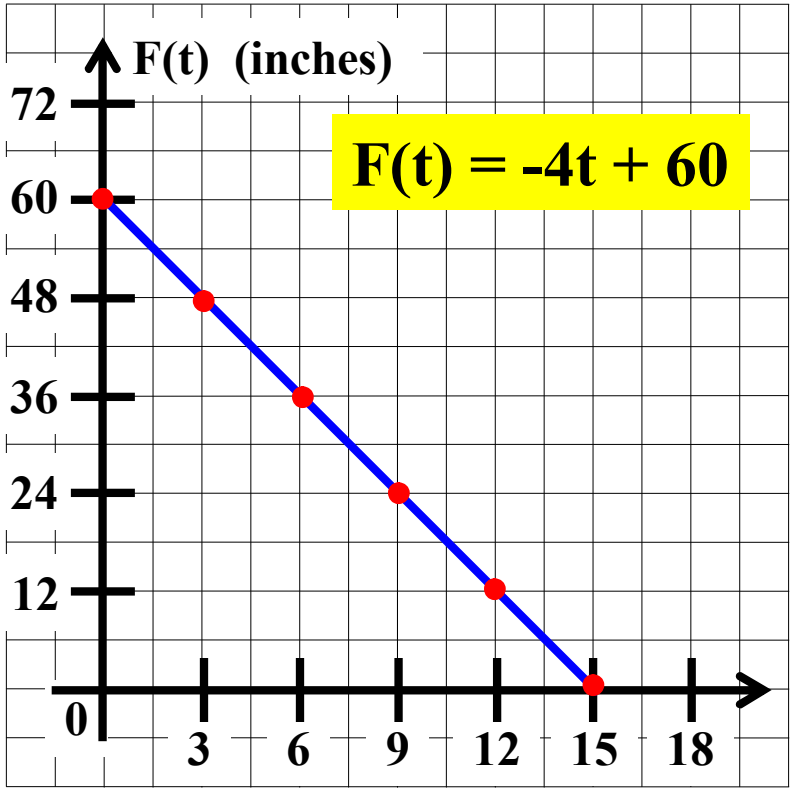

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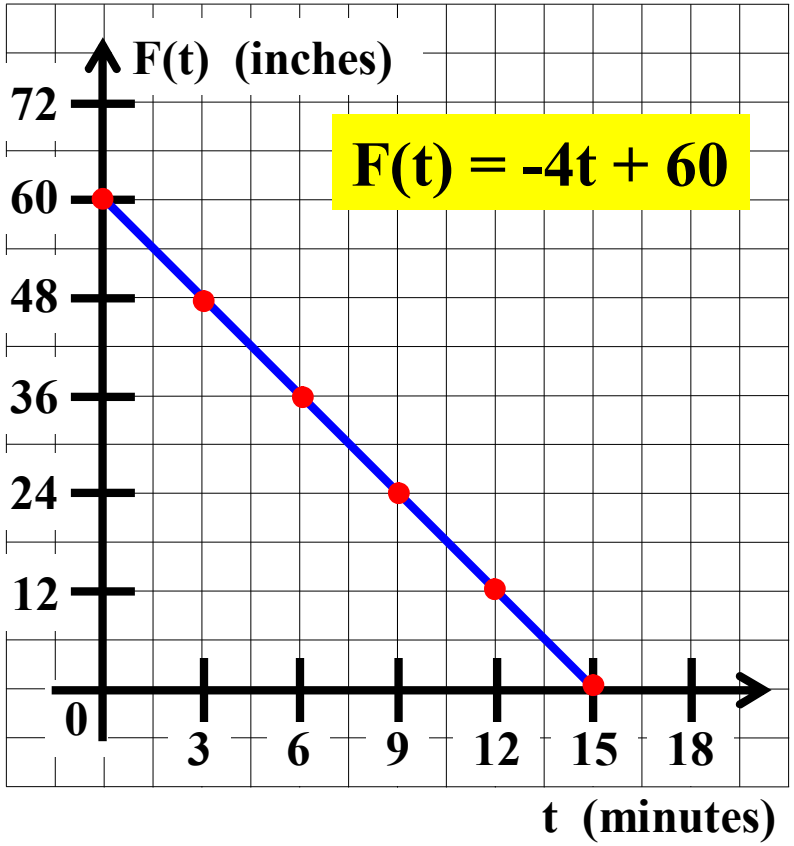

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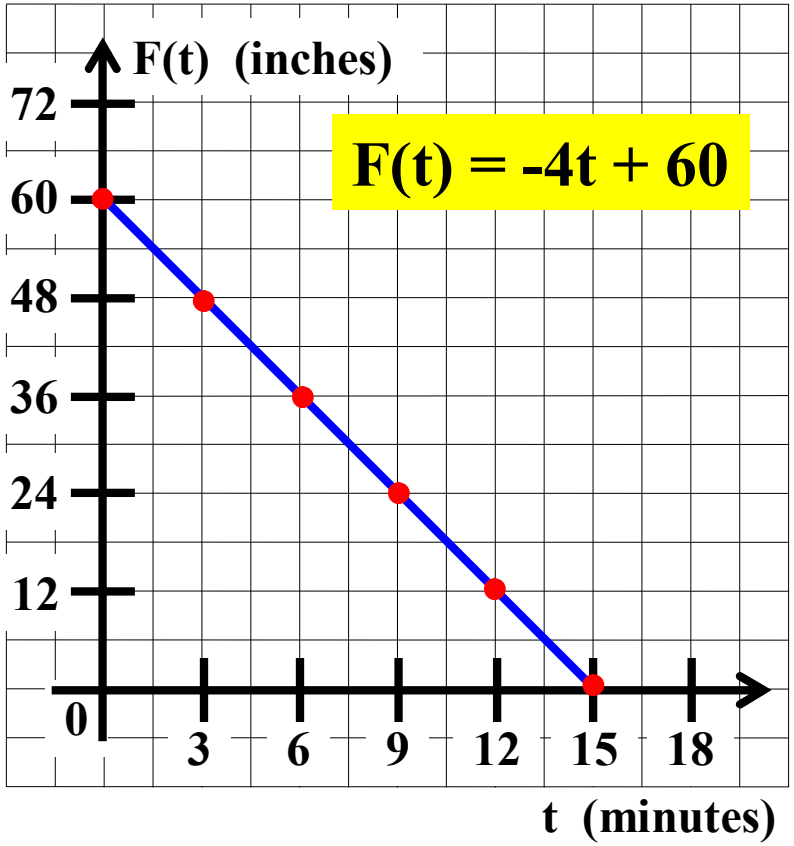

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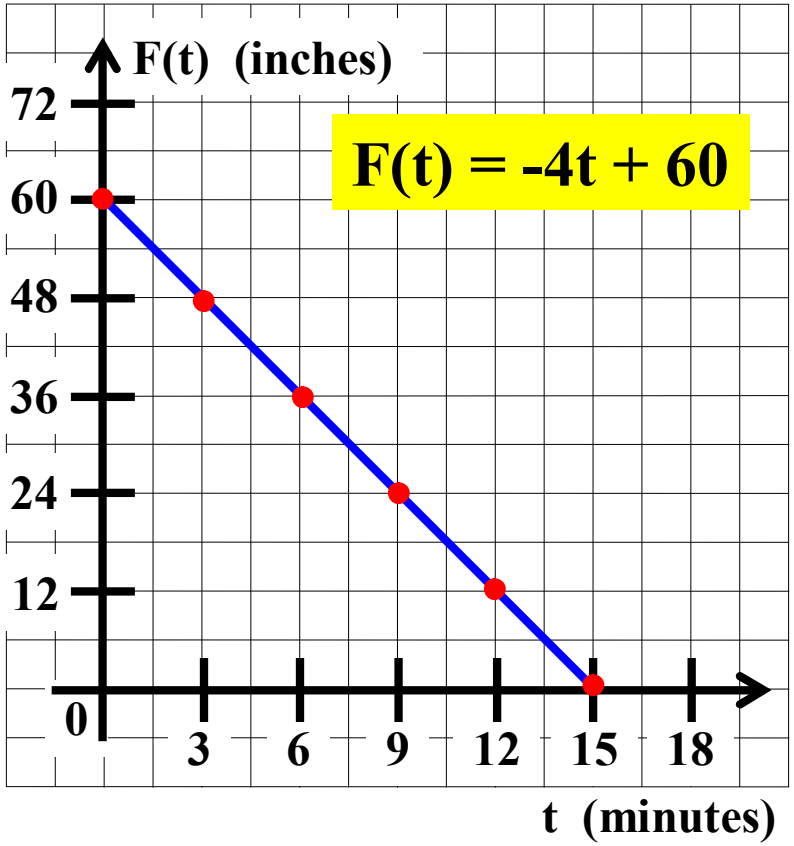

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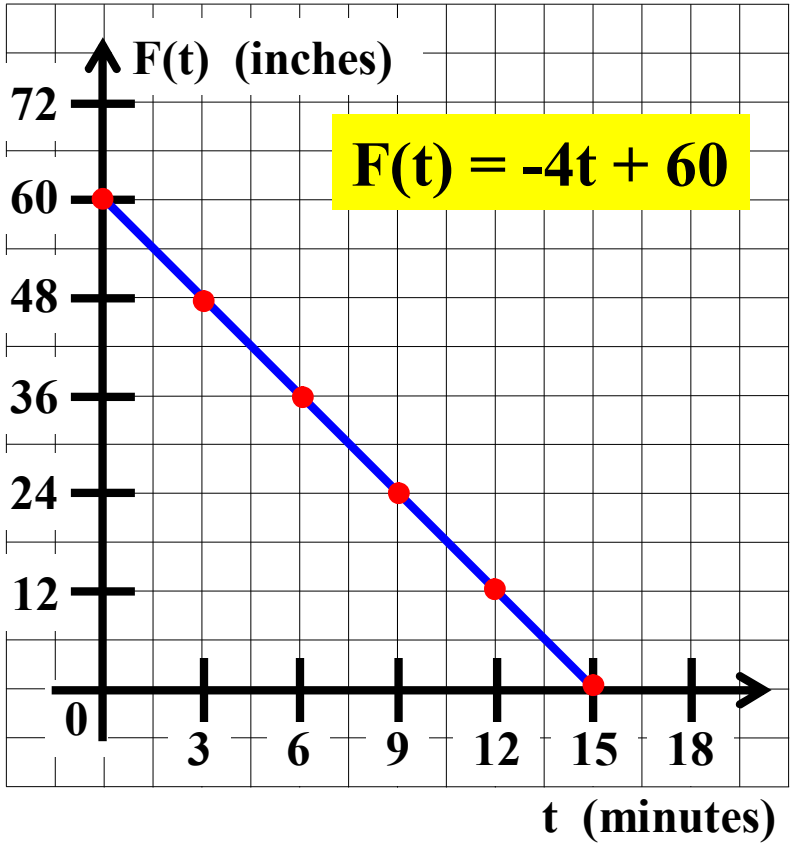

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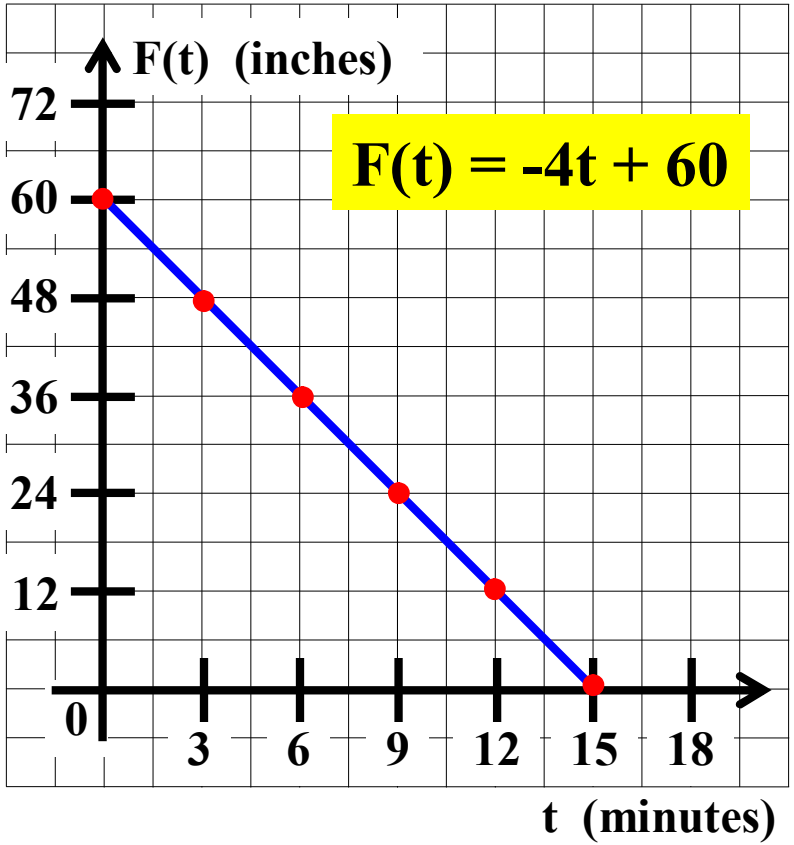

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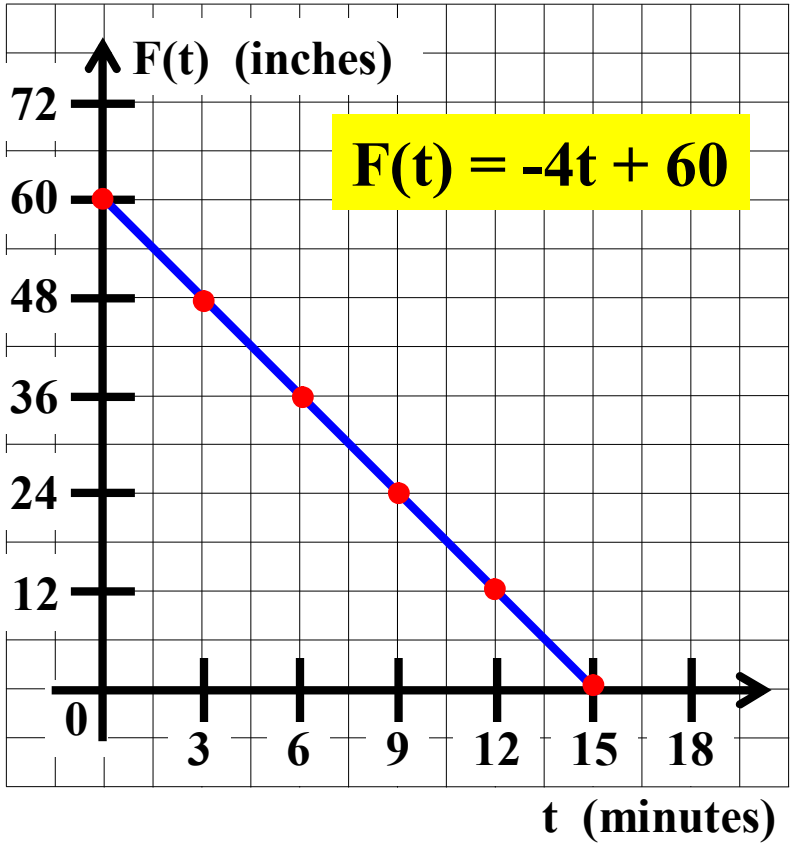

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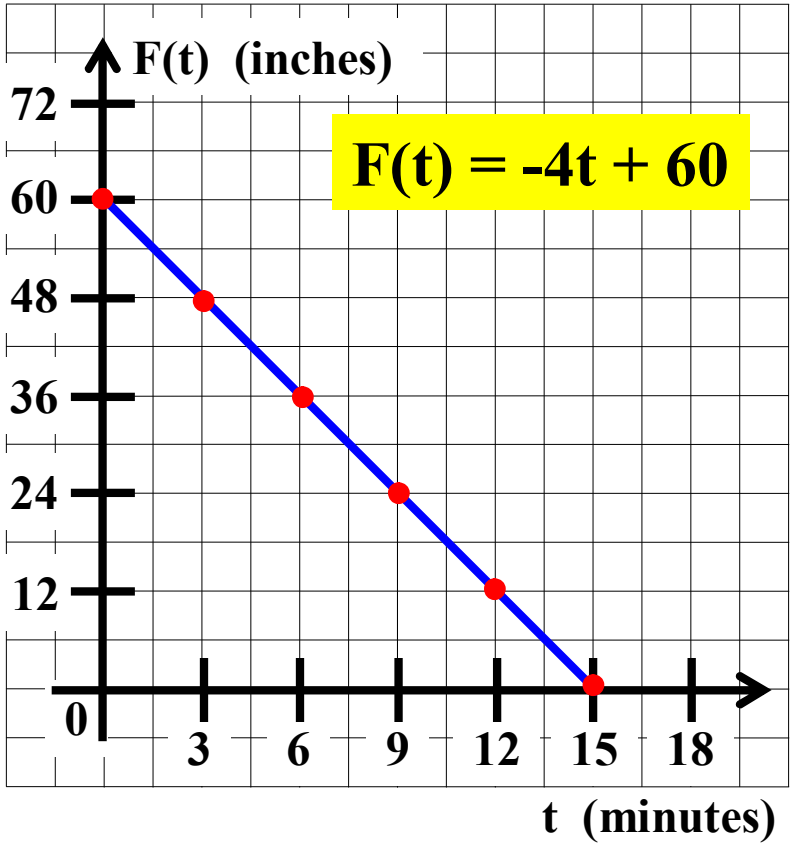

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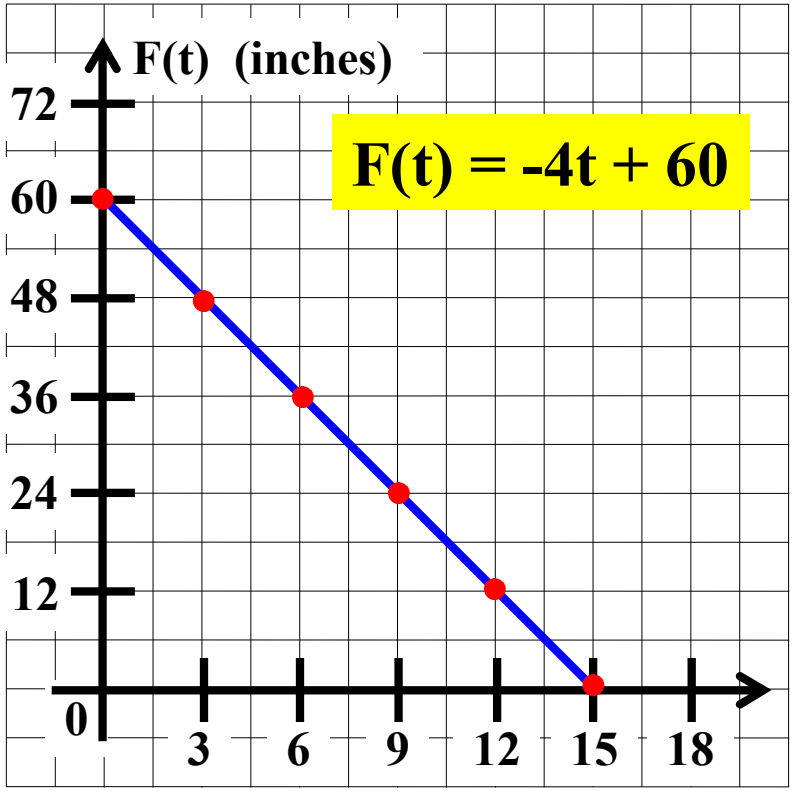

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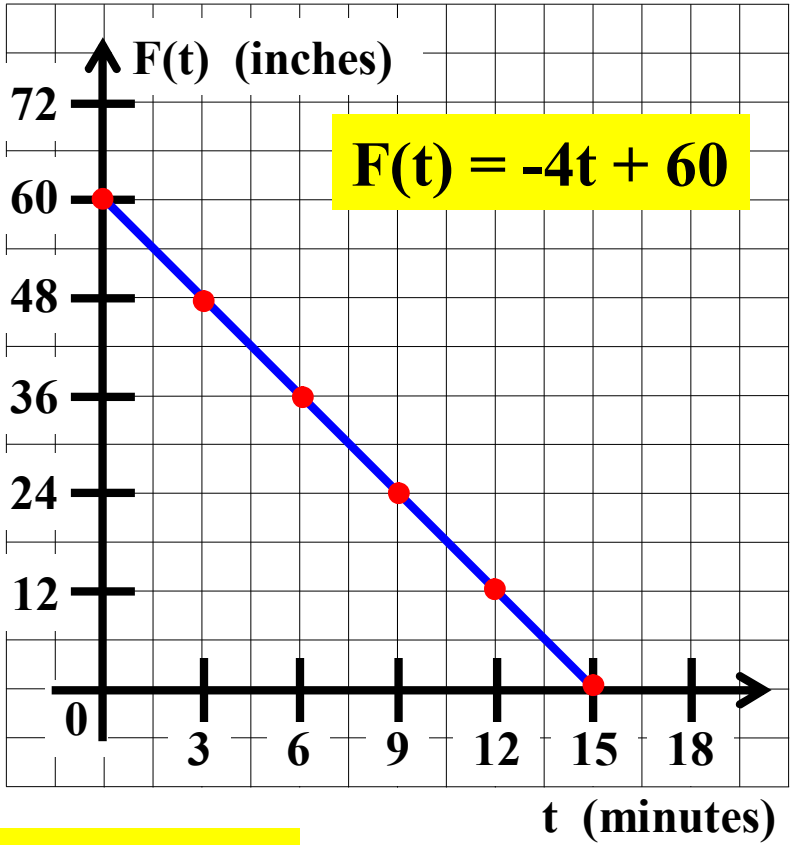

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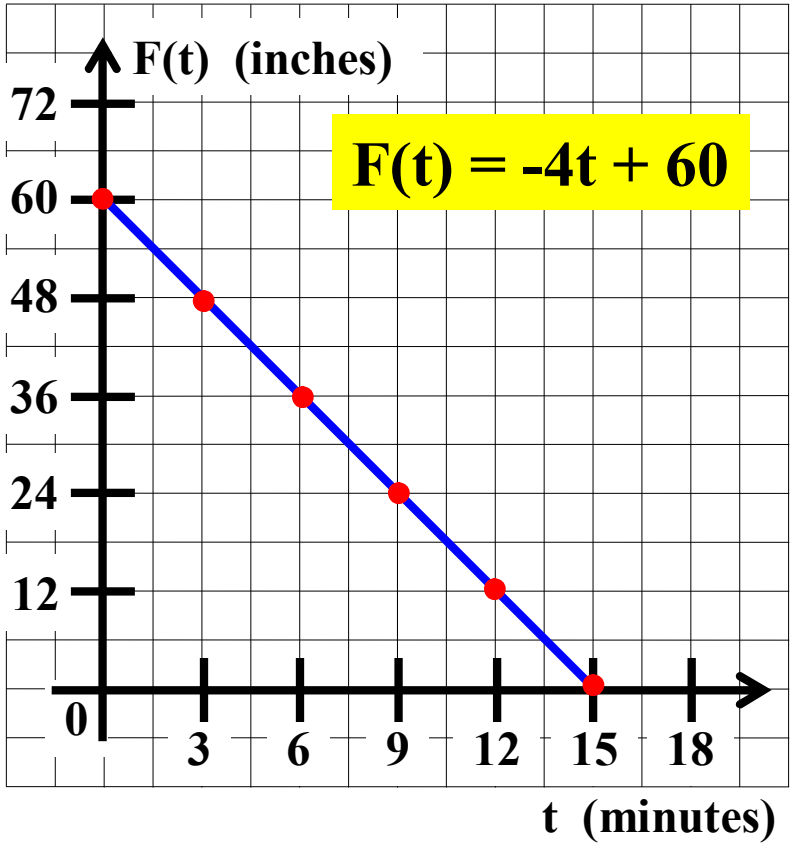

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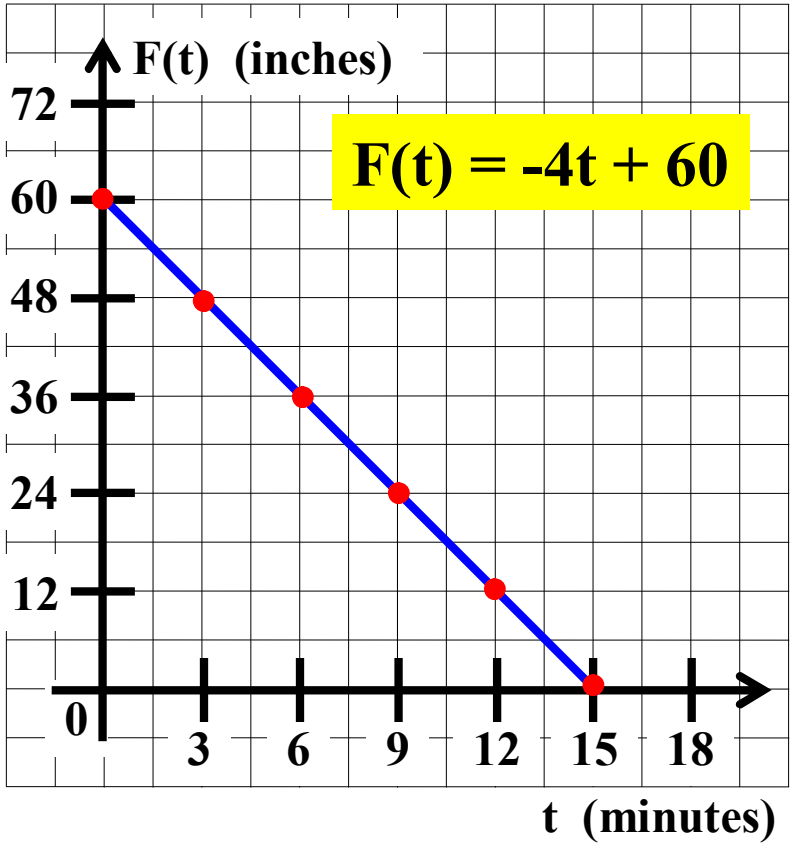
$0 \le t \le 15$

range

$0 \le F(t) \le 60$

15. Evaluate F(9).

11. Graph function F.



Algebra I Class Worksheet #5 Unit 8

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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? **15 minutes**

10. Make a table giving t and F(t) every 3 minutes from t = 0 until the tank is empty.

t	F(t)
0	60
3	48
6	36
9	24
12	12
15	0

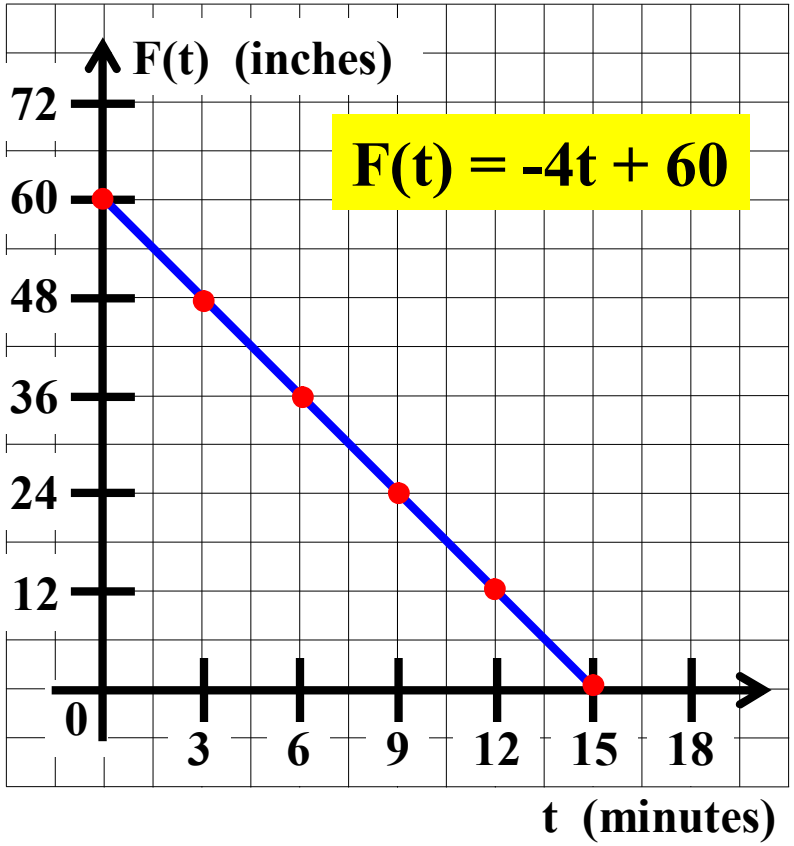
domain

$0 \le t \le 15$

range

$0 \le F(t) \le 60$

11. Graph function F.



15. Evaluate F(9).

F(9) =

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0	60
3	48
6	36
→ 9	24
12	12
15	0

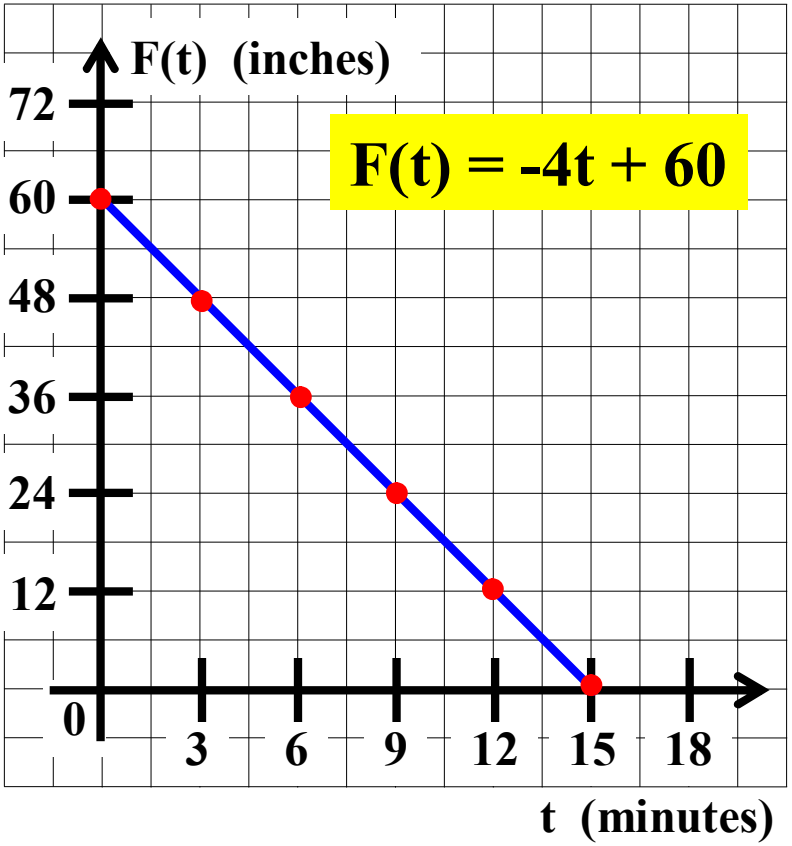
domain

$0 \le t \le 15$

range

$0 \le F(t) \le 60$

11. Graph function F.



15. Evaluate F(9).

F(9) =

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0	60
3	48
6	36
→ 9	24
12	12
15	0

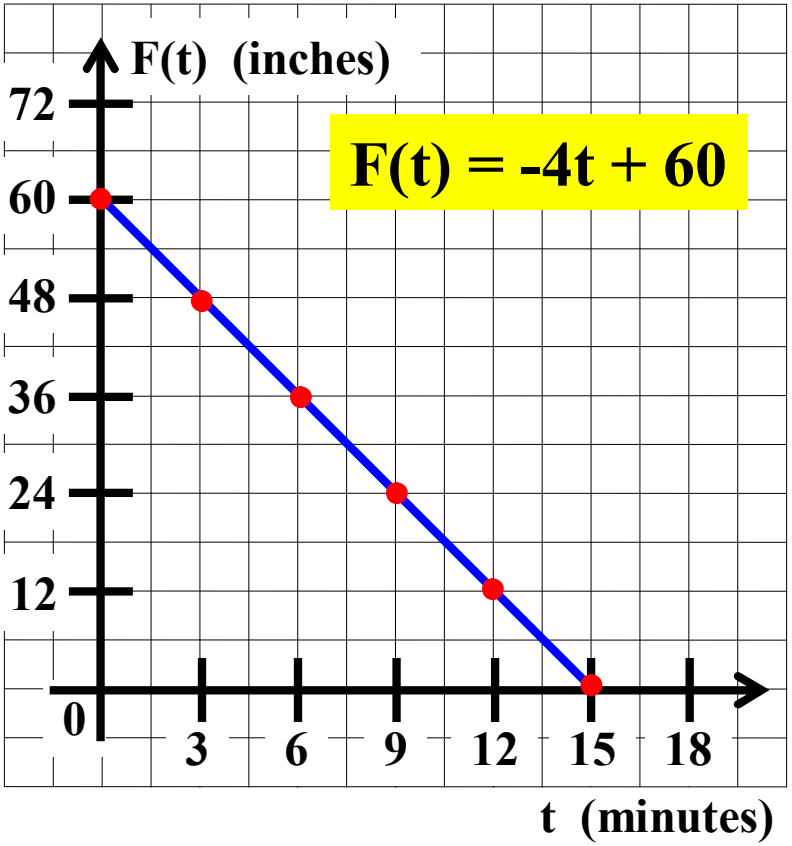
domain

$0 \le t \le 15$

range

$0 \le F(t) \le 60$

11. Graph function F.



15. Evaluate F(9).

$F(9) = 24$

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6	36
9	24
12	12
15	0

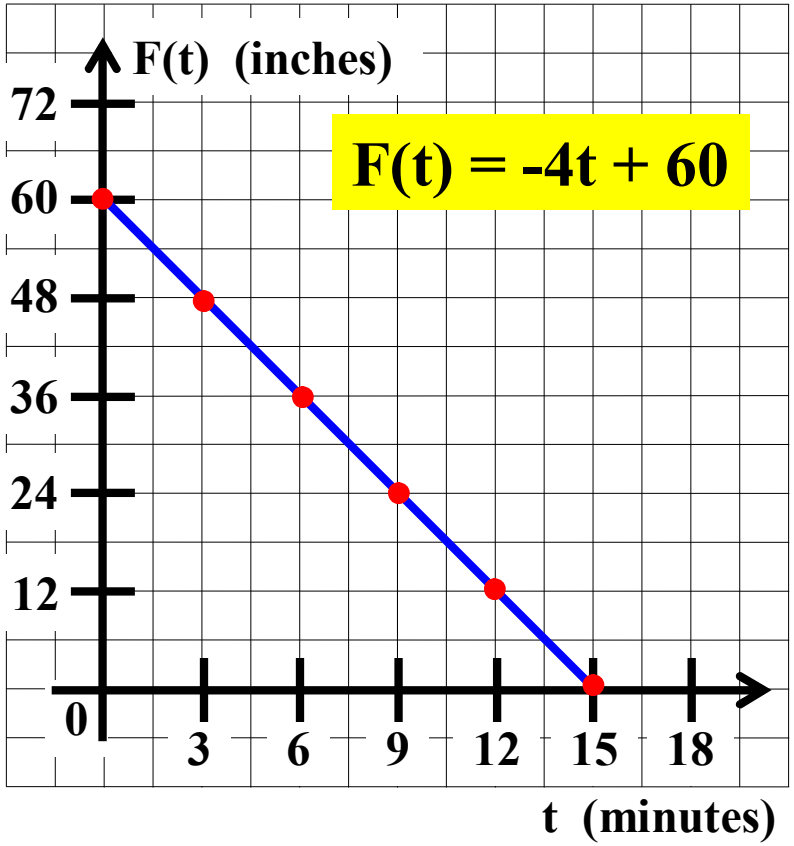
domain

$0 \le t \le 15$

range

$0 \le F(t) \le 60$

11. Graph function F.



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12	12
15	0

domain

$0 \le t \le 15$

range

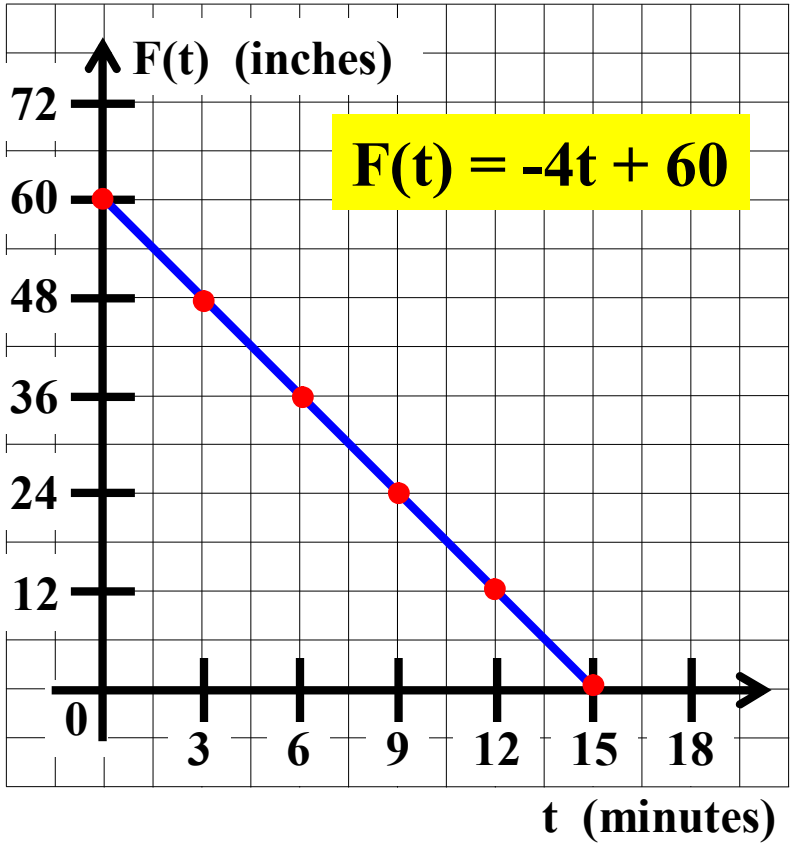
$0 \le F(t) \le 60$

15. Evaluate F(9).

What does F(9) represent in terms of the problem?

$F(9) = 24$

11. Graph function F.



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domain

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$0 \le F(t) \le 60$

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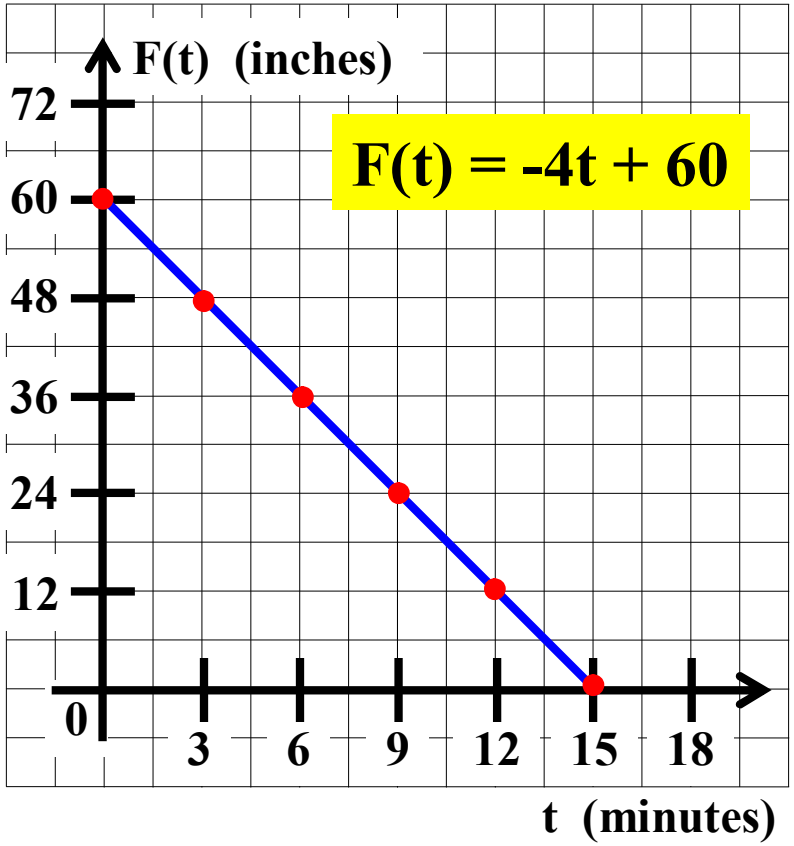

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F(9) represents

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range

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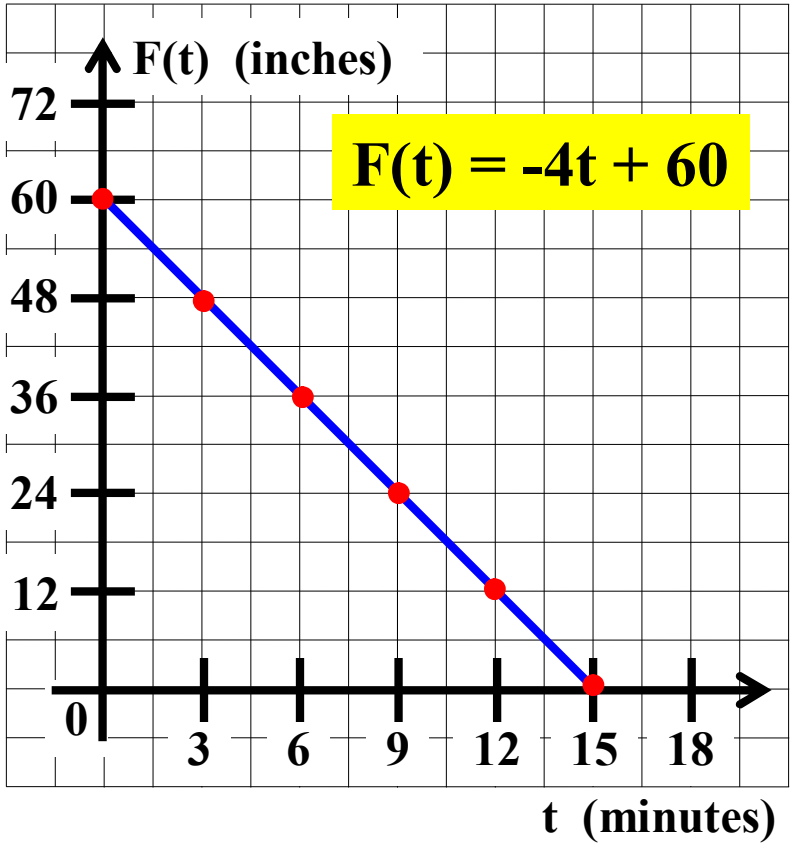

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What does F(9) represent in terms of the problem?

$F(9) = 24$

F(9) represents the depth of the water

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domain

$0 \le t \le 15$

range

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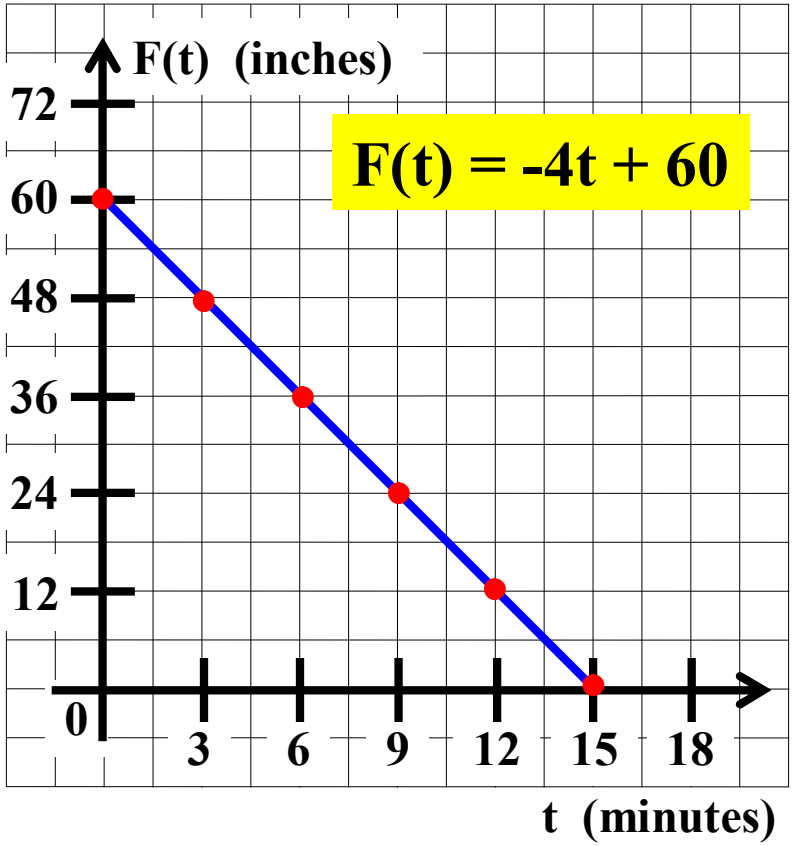

15. Evaluate F(9).

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$F(9) = 24$

F(9) represents the depth of the water after 9 minutes.

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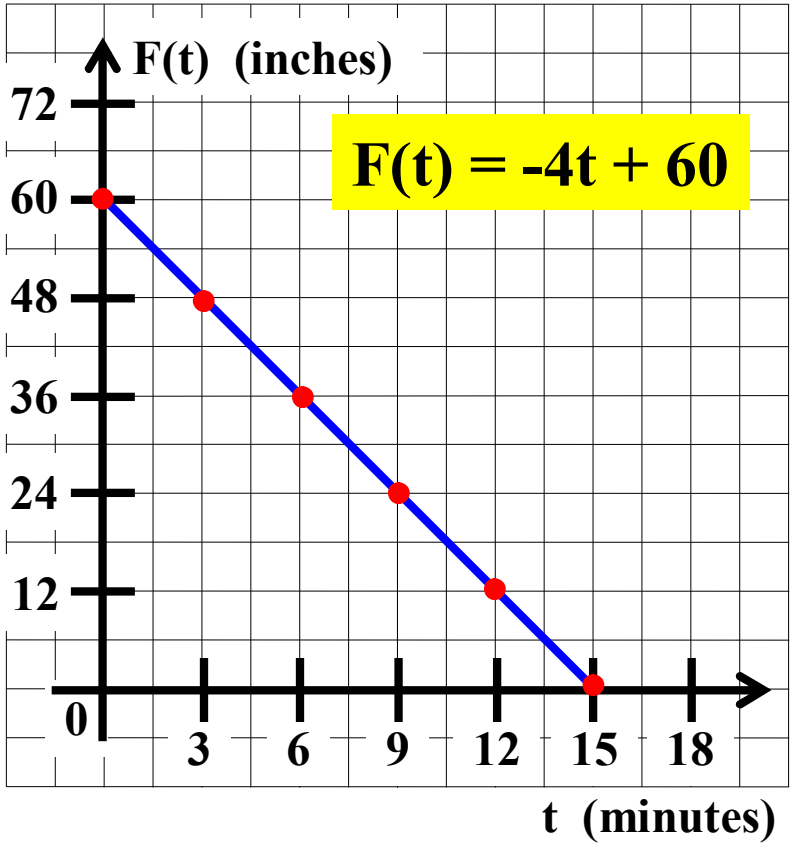

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F(9) = 24 inches

F(9) represents the depth of the water after 9 minutes.

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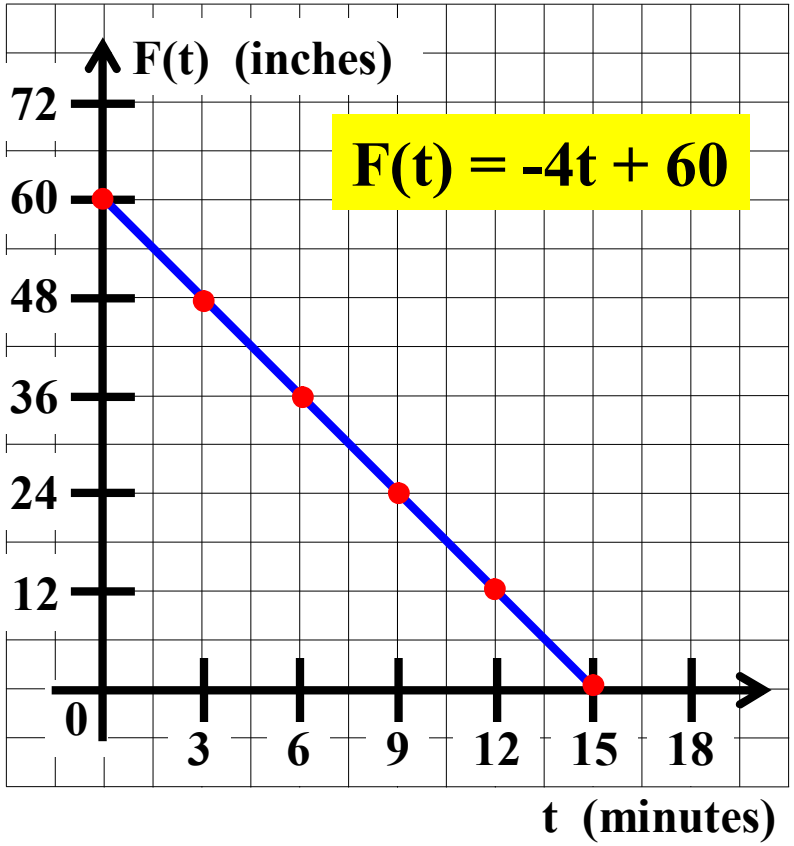

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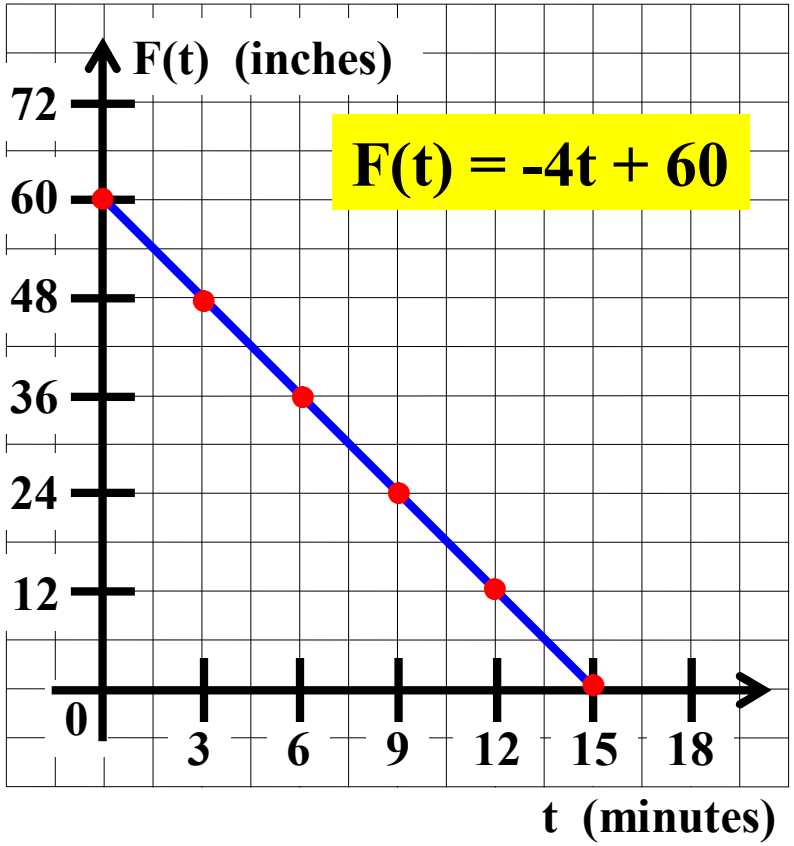

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$0 \le t \le 15$

range

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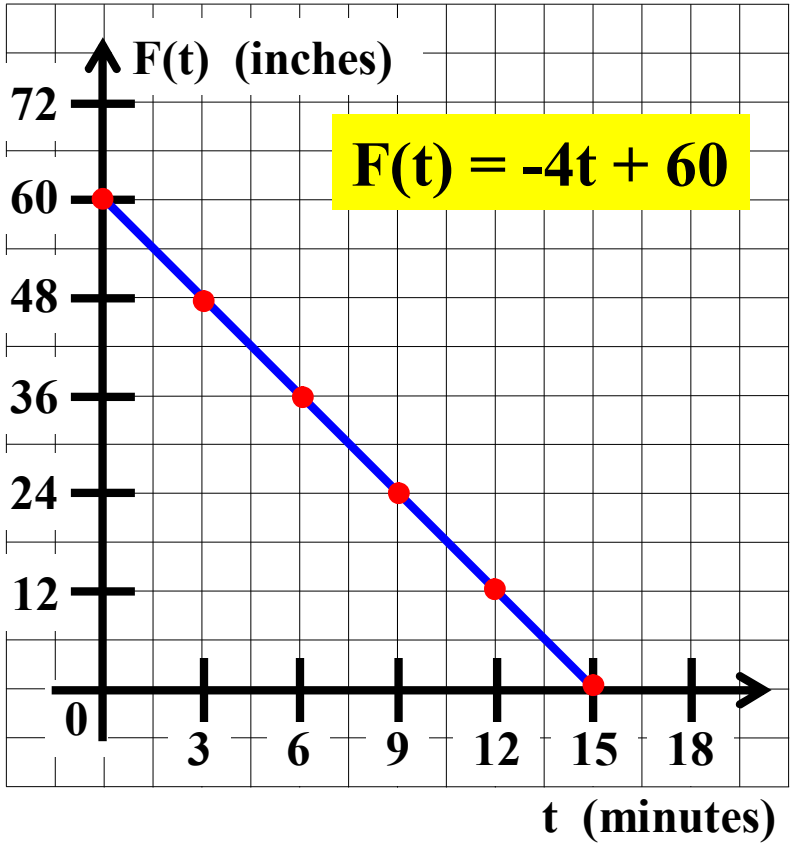
16. If F(t) = 20, then find the value of t.

11. Graph function F.



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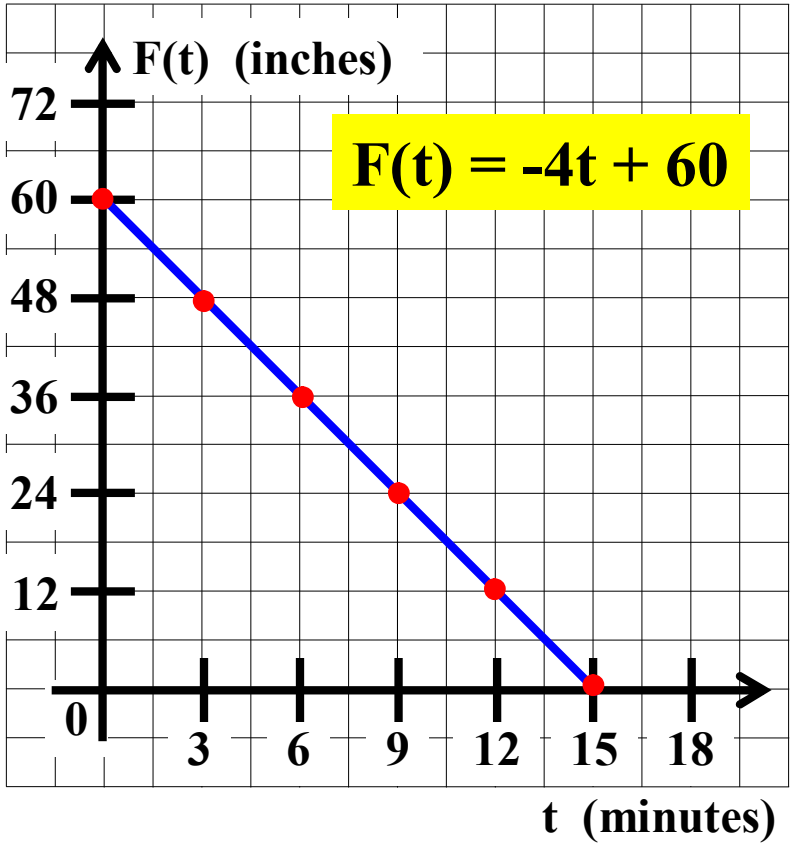

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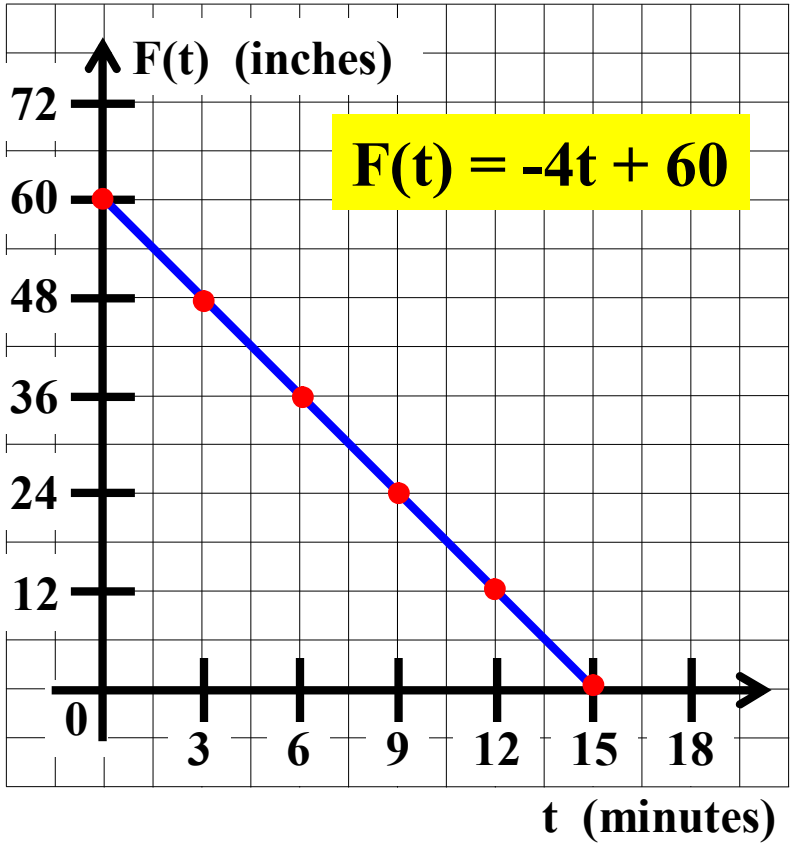

16. If F(t) = 20, then find the value of t.

$$F(t) = 20$$
$$-4t + 60$$

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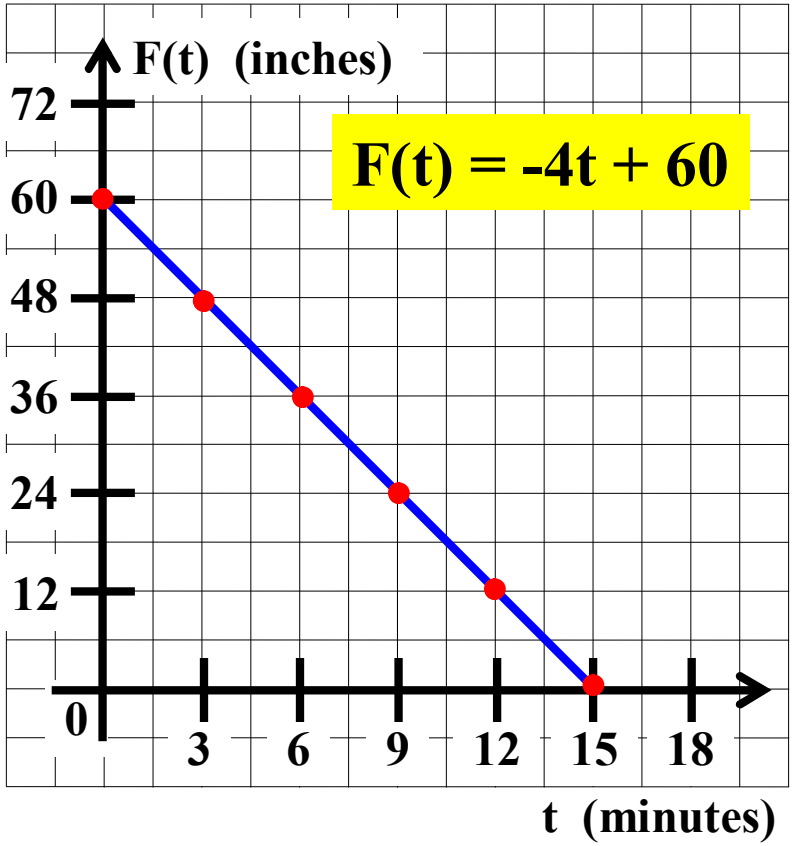

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$$F(t) = 20$$
$$-4t + 60 = 20$$

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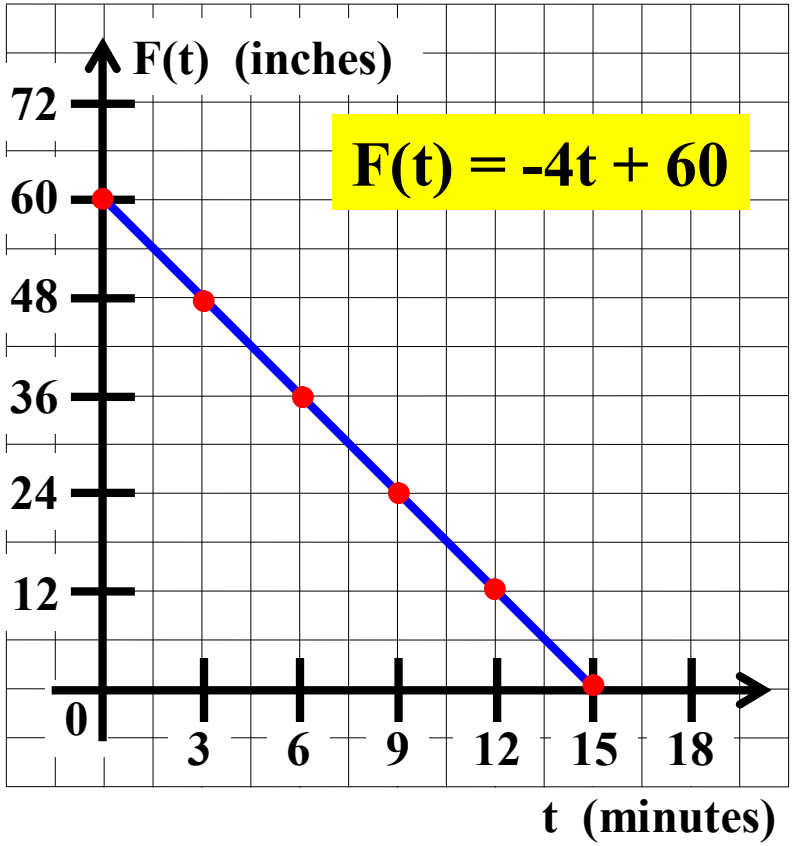

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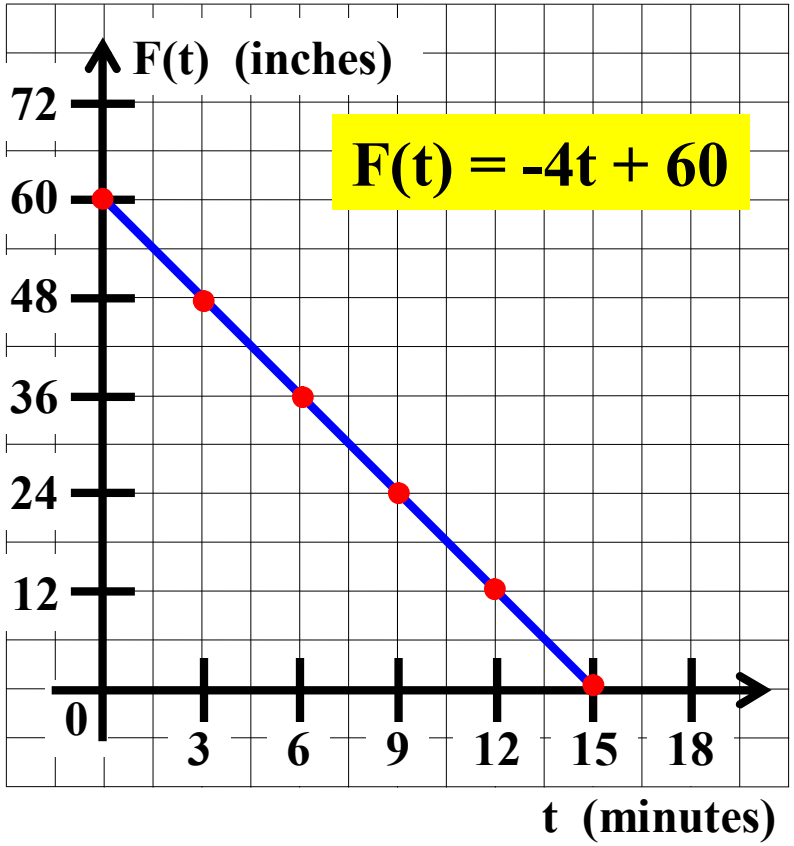

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$F(t) = 20$

$-4t + 60 = 20 \rightarrow -4t$

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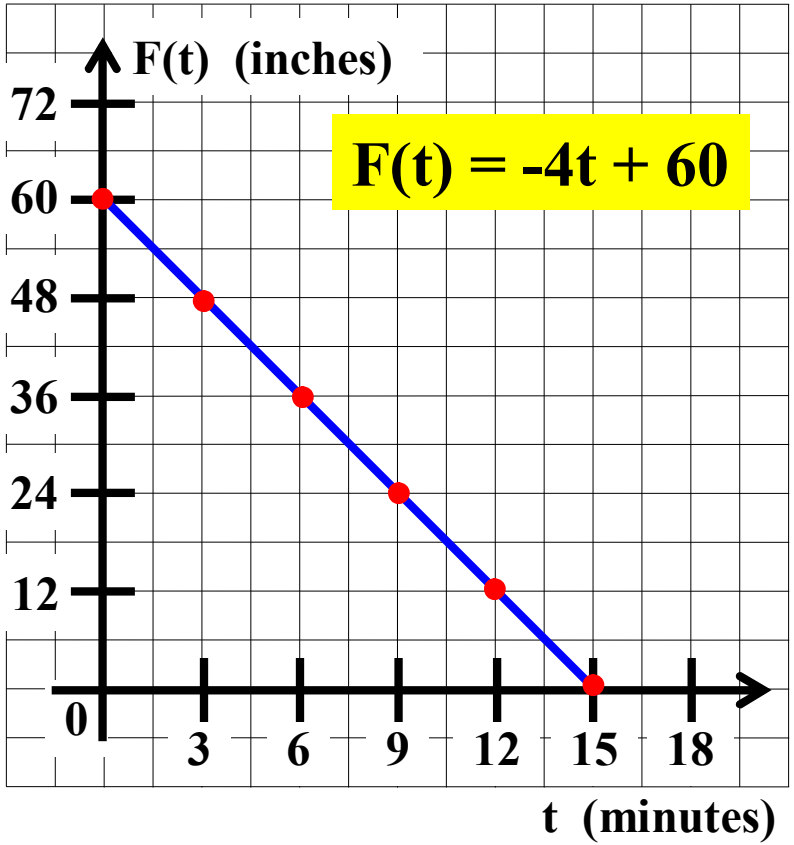

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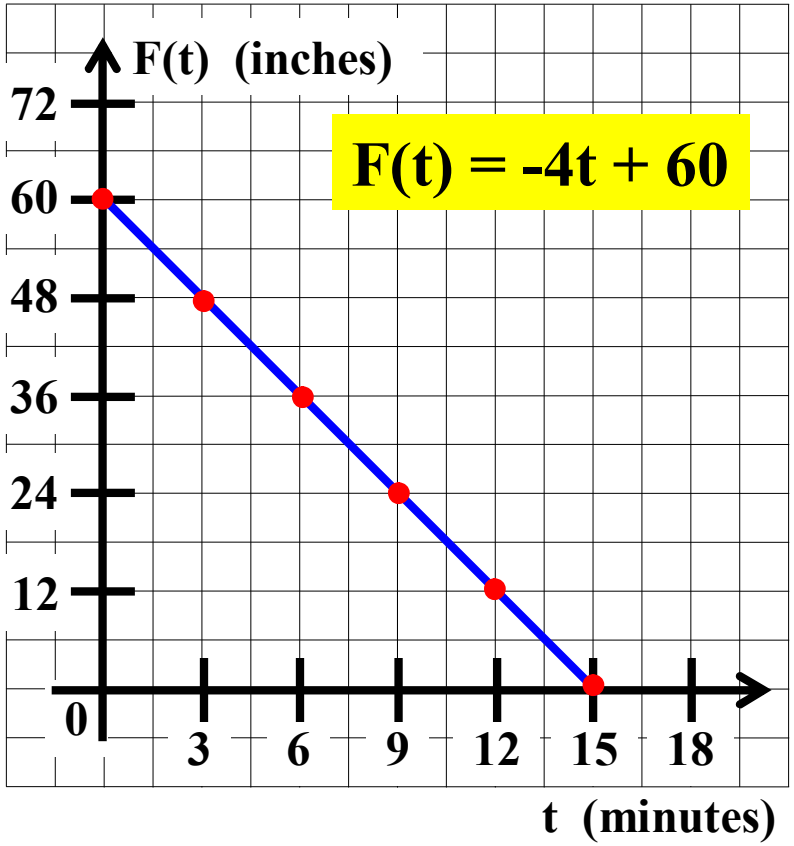

16. If F(t) = 20, then find the value of t.

$F(t) = 20$

$-4t + 60 = 20 \rightarrow -4t = -40$

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range

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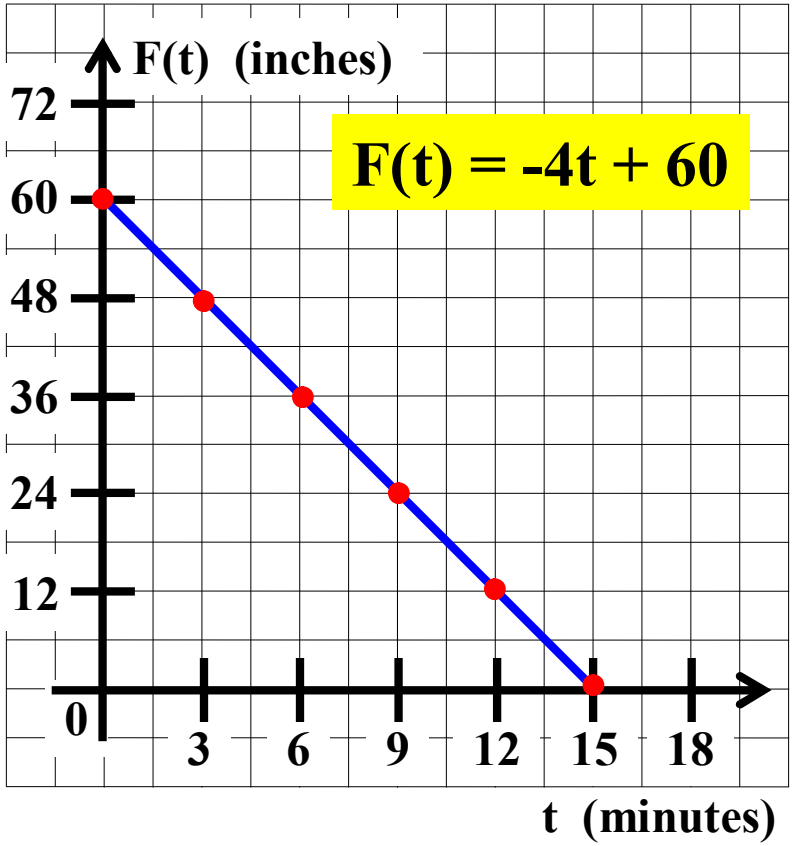

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$F(t) = 20 \Rightarrow$

$-4t + 60 = 20 \Rightarrow -4t = -40$

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0	60
3	48
6	36
9	24
12	12
15	0

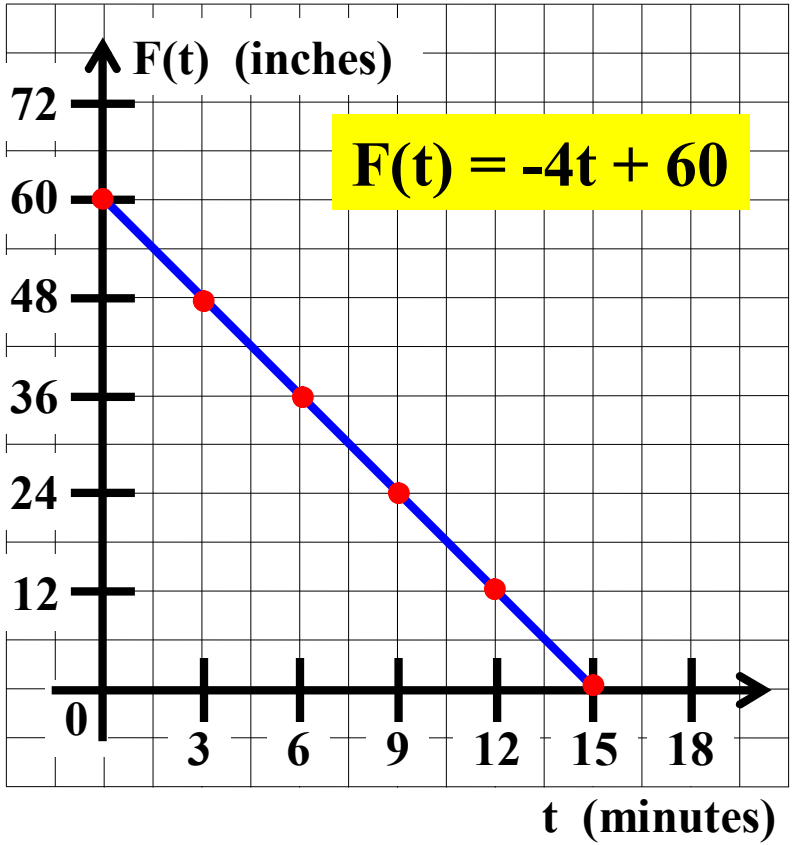
domain

$0 \le t \le 15$

range

$0 \le F(t) \le 60$

11. Graph function F.



16. If F(t) = 20, then find the value of t.

$F(t) = 20 \Rightarrow t =$

$-4t + 60 = 20 \Rightarrow -4t = -40$

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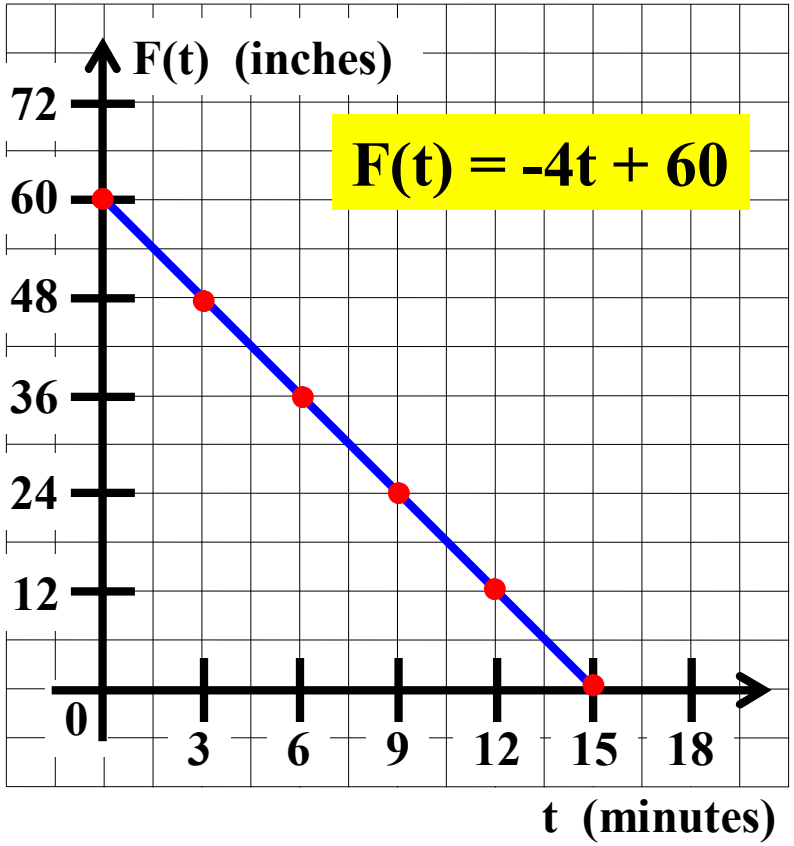

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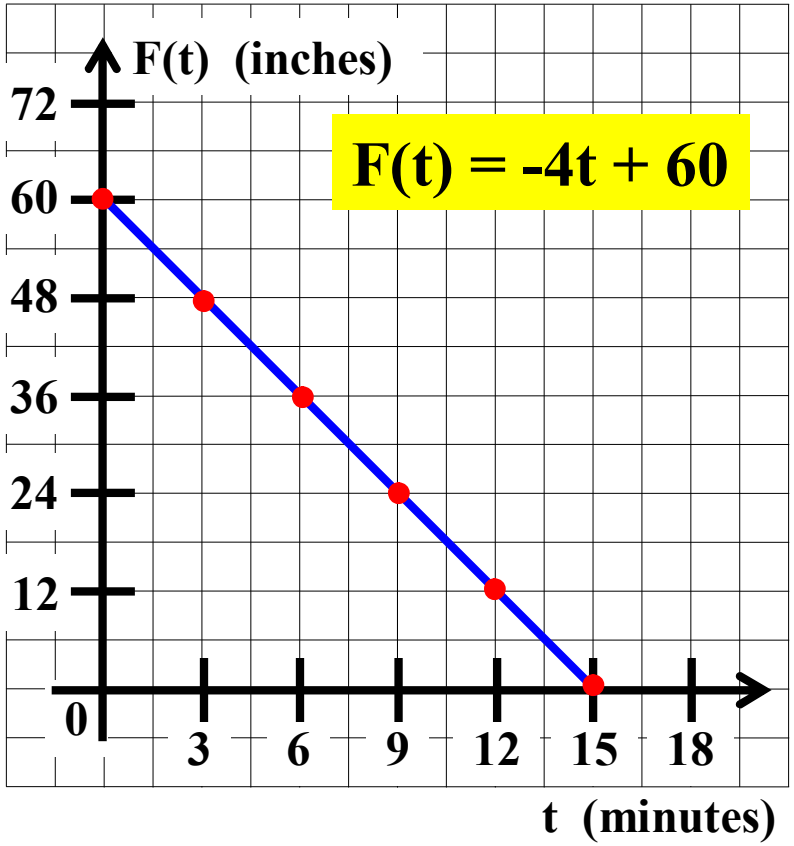

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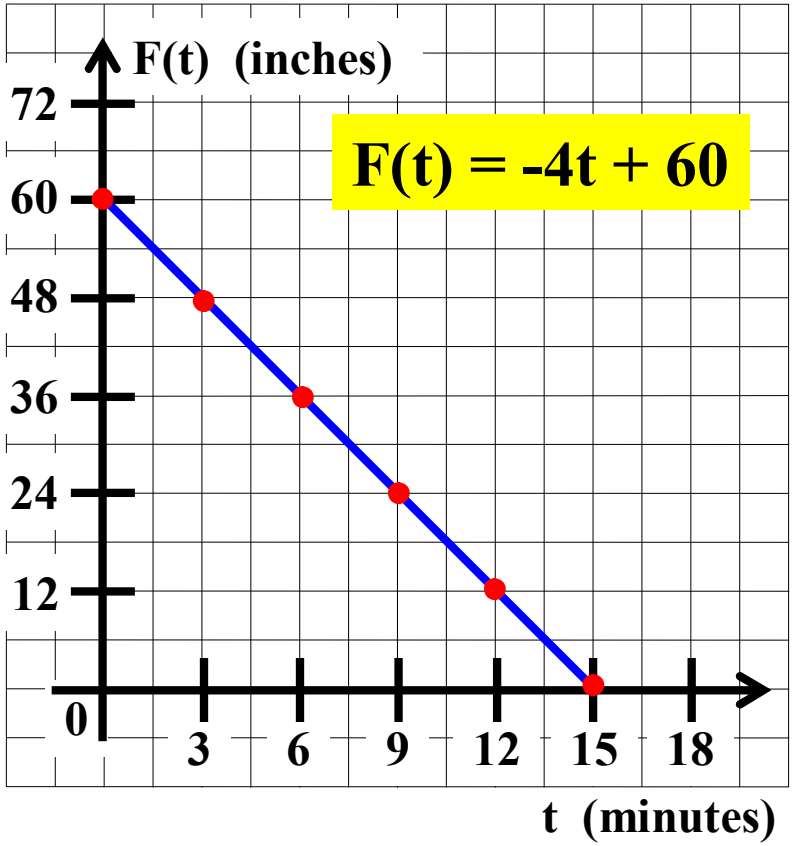

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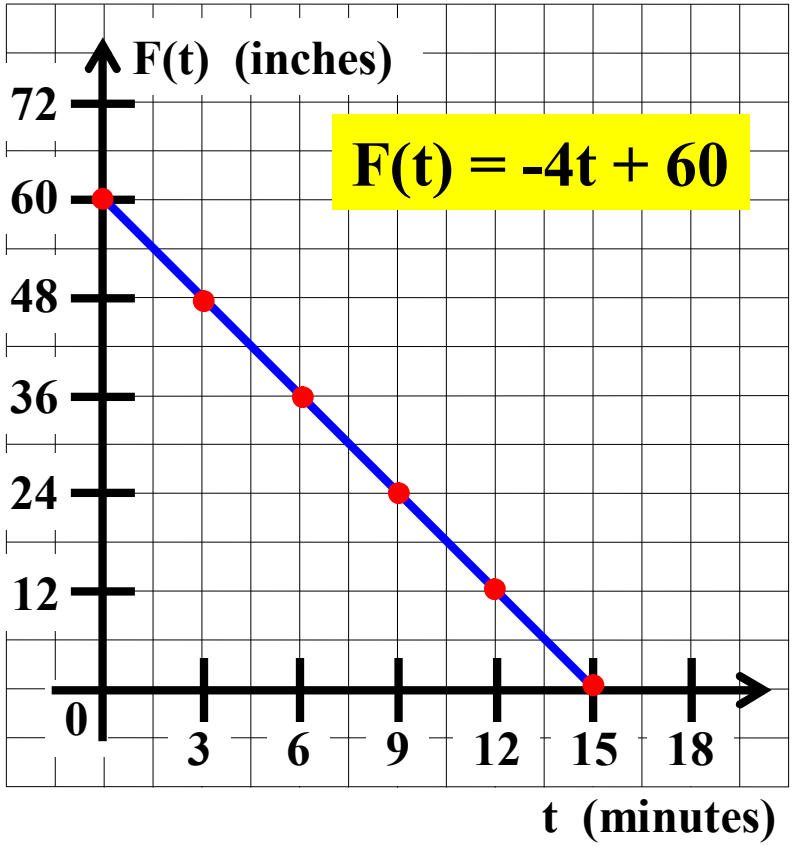

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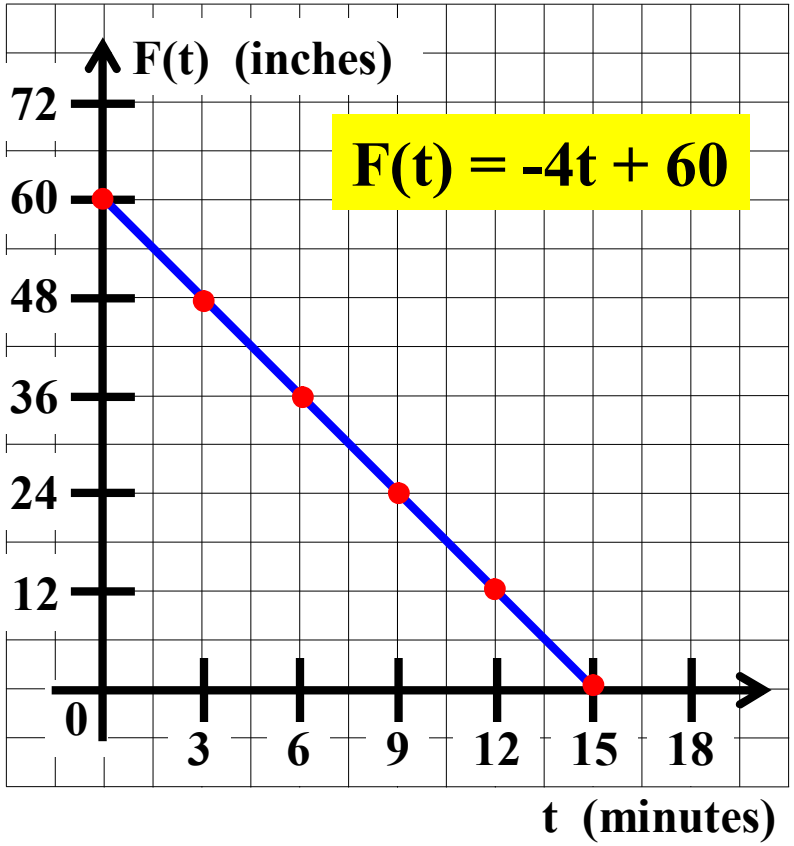

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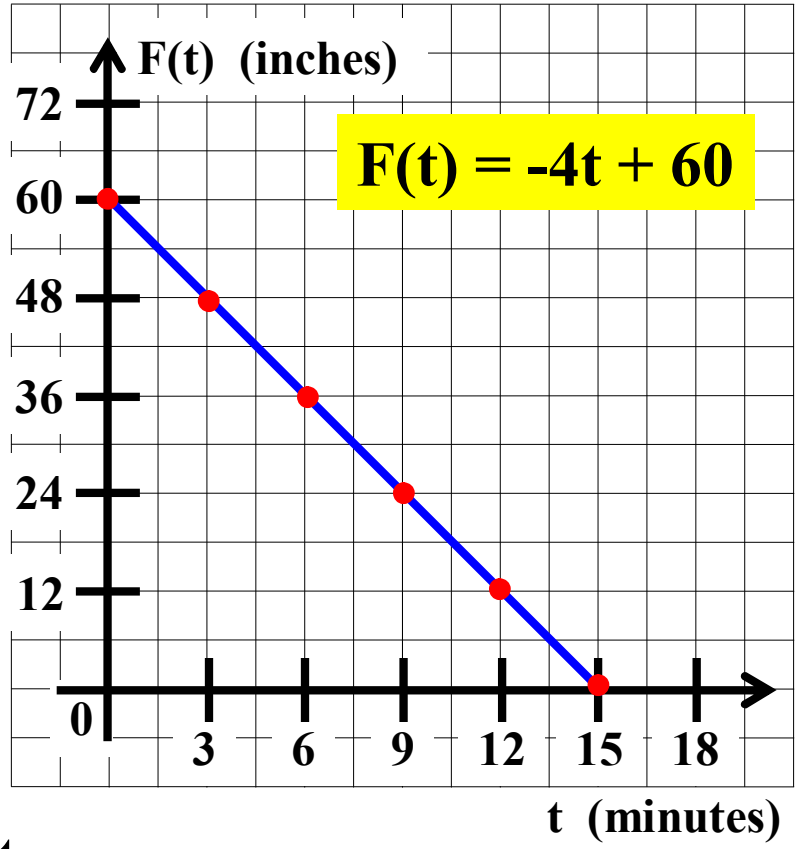

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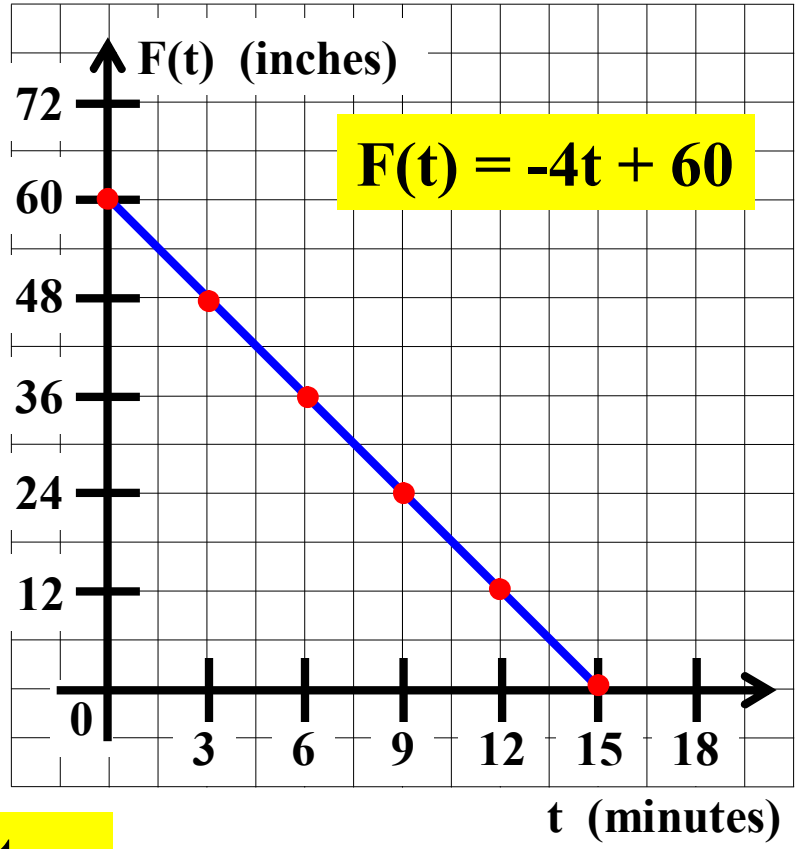

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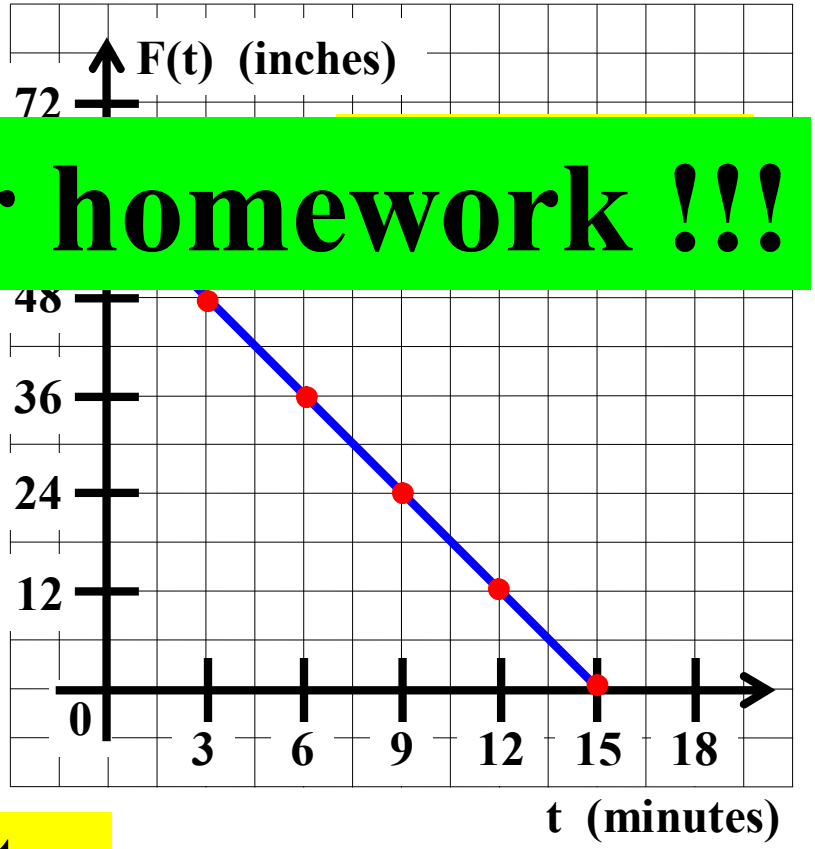

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