General Algebra II
Lesson #5 Unit 6
Class Worksheet #5
For Worksheet #6

General Algebra II CWS #5 Unit 6

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

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V =

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$$V = LWH$$

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$$V = LWH$$

$$V =$$

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V = LWH

V = (12 ft.)(

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V = LWH

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

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$$V = LWH$$

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

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

$$V =$$

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

$$V = LWH$$

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

$$V = 360$$

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$$V = LWH$$

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

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

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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 =

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V = LWH

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

V = 360 cu. ft.

Time = 360 cu. ft.

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Time = 360 cu. ft. ÷

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

V = 360 cu. ft.

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

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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

General Algebra II CWS #5 Unit 6

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

$$V = LWH$$

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

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

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

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

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t	f(t)

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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	

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0	
4	
8	
12	
16	
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32	
36	
40	

When t = 0,

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8	
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20	
24	
28	
32	
36	
40	

When t = 0, the tank is empty.

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t	f(t)
0	
4	
8	
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16	
20	
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28	
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When t = 0, the tank is empty.
The water is 0 inches deep.

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0	0
4	
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12	
16	
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32	
36	
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The water is 0 inches deep.

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

When t = 0, the tank is empty.
The water is 0 inches deep.
When t = 40,

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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.
When t = 40, the tank is full.

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0	0
4	
8	
12	
16	
20	
24	
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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.

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

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

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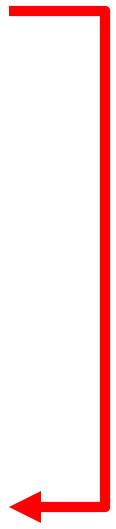

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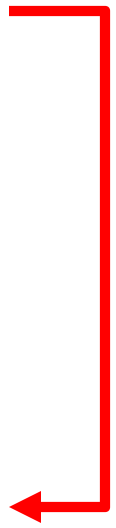

The water depth increases 60 inches

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The water depth increases 60 inches in 40 minutes.

It increases at 1.5 inches per minute.

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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.

General Algebra II CWS #5 Unit 6

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.

General Algebra II CWS #5 Unit 6

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
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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)
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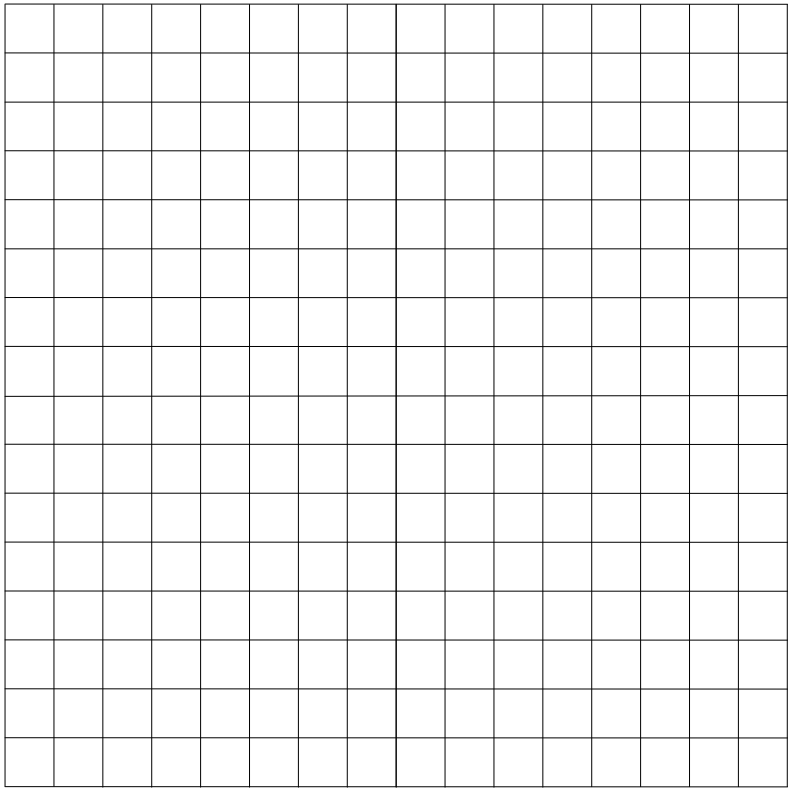
3. Graph function f.



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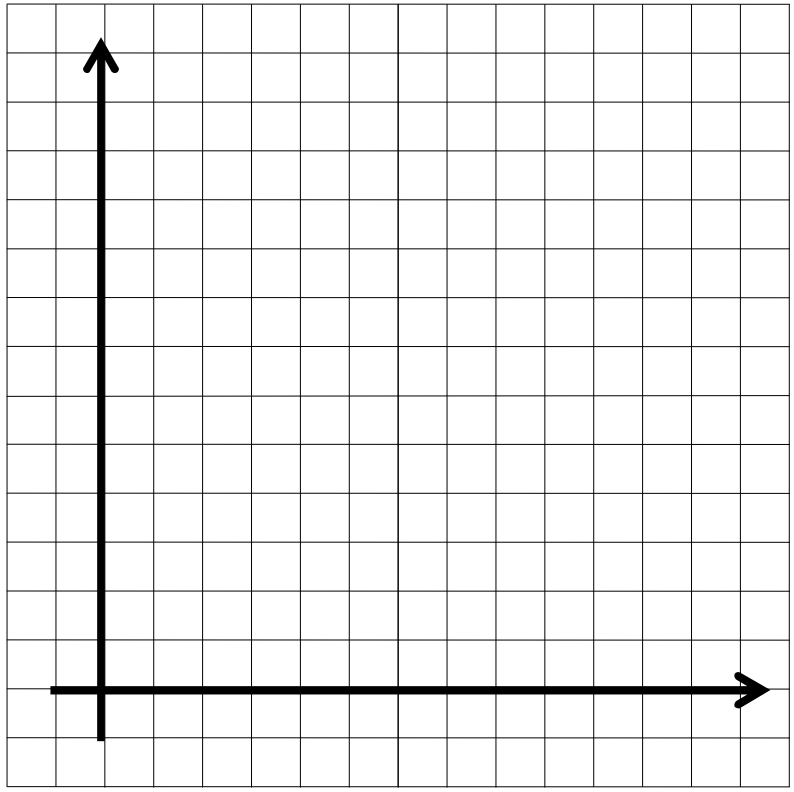

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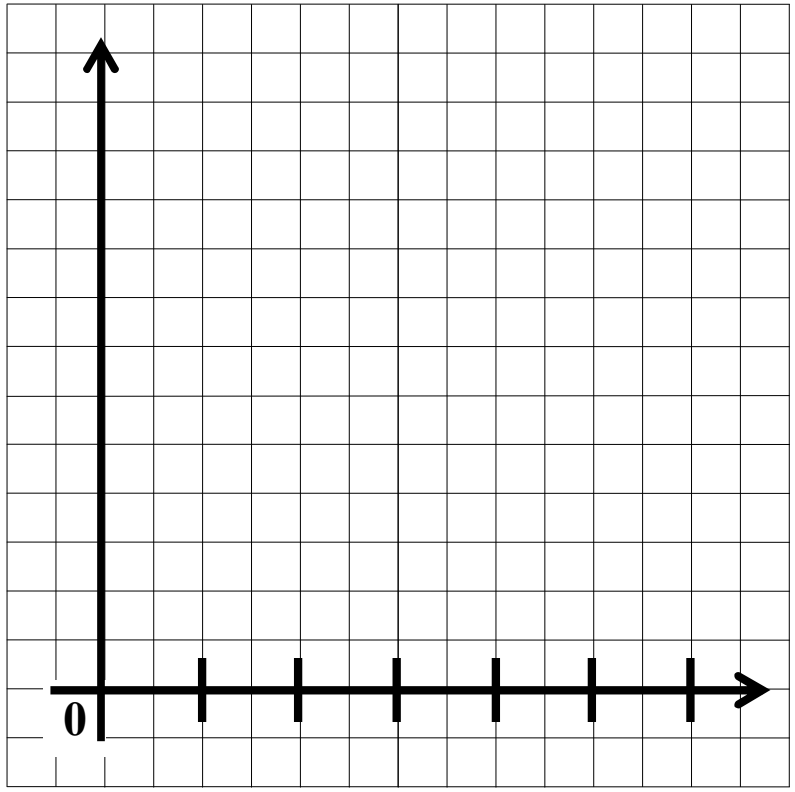

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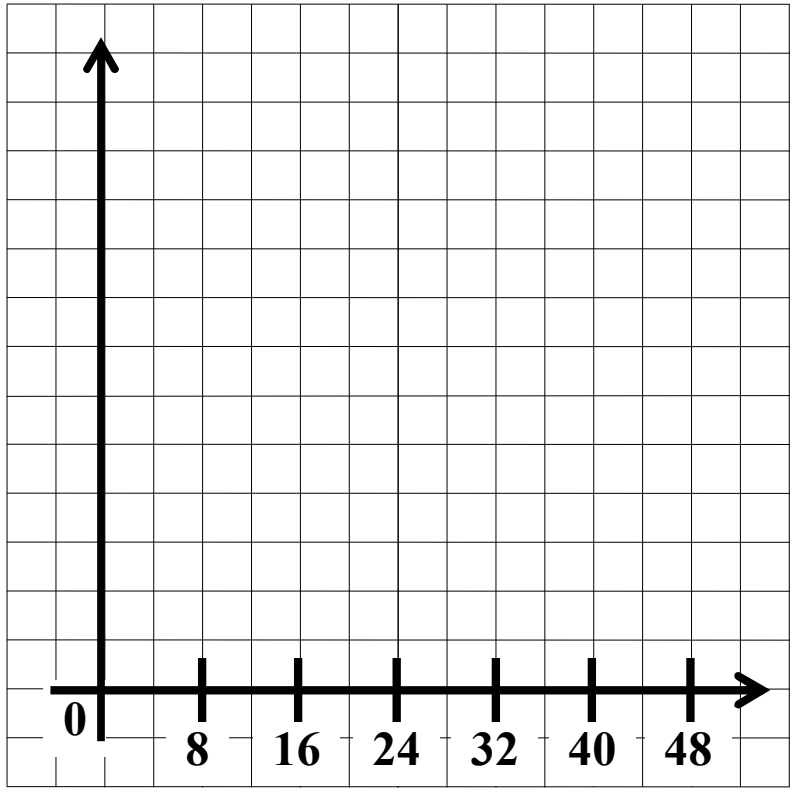

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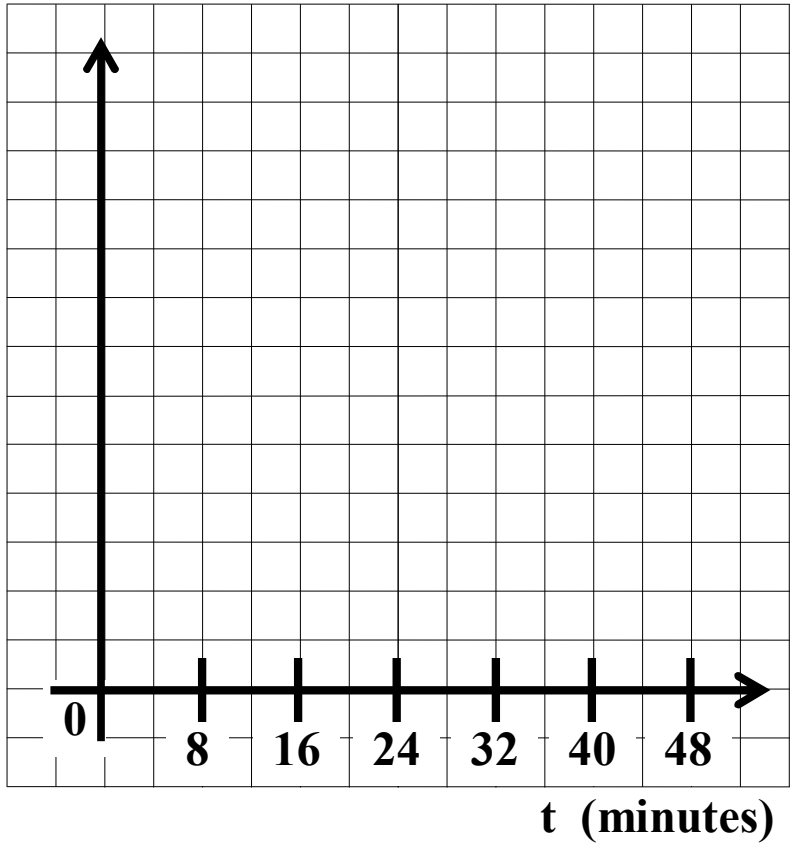

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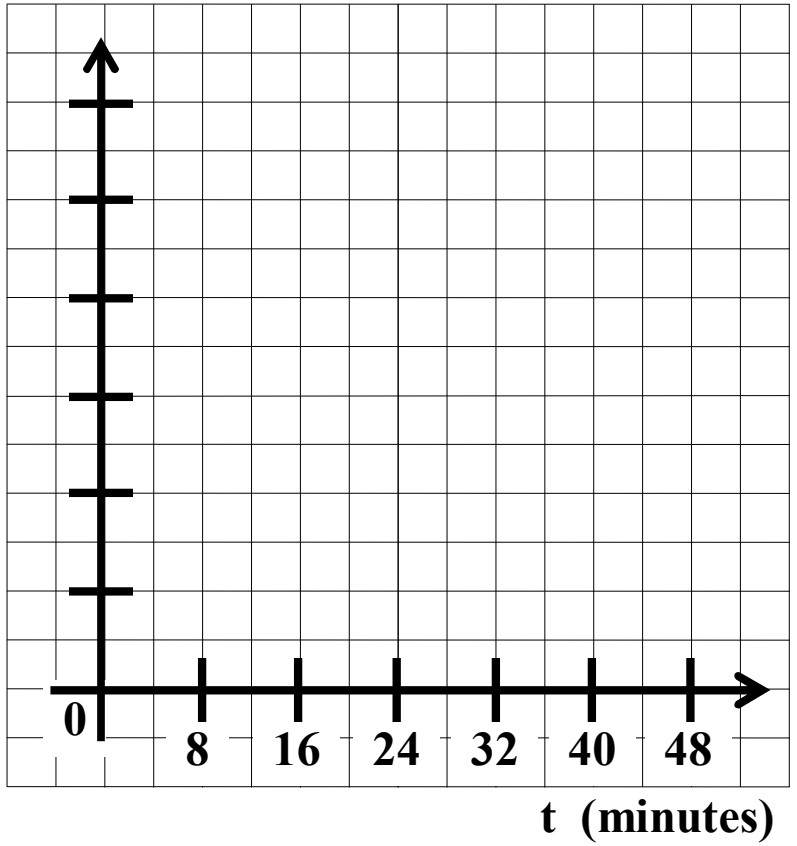

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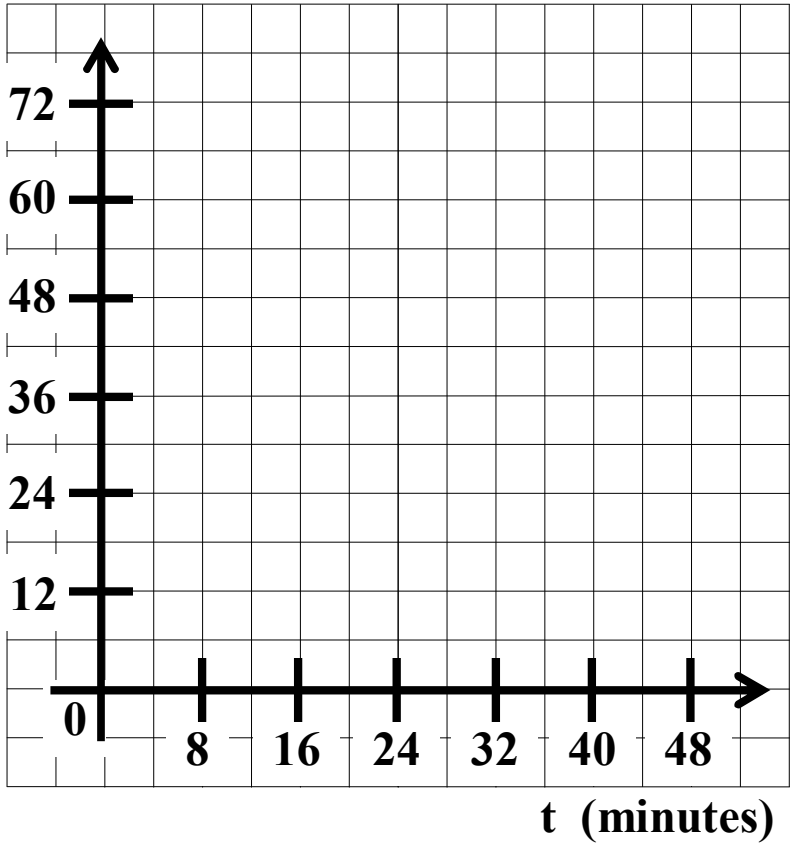

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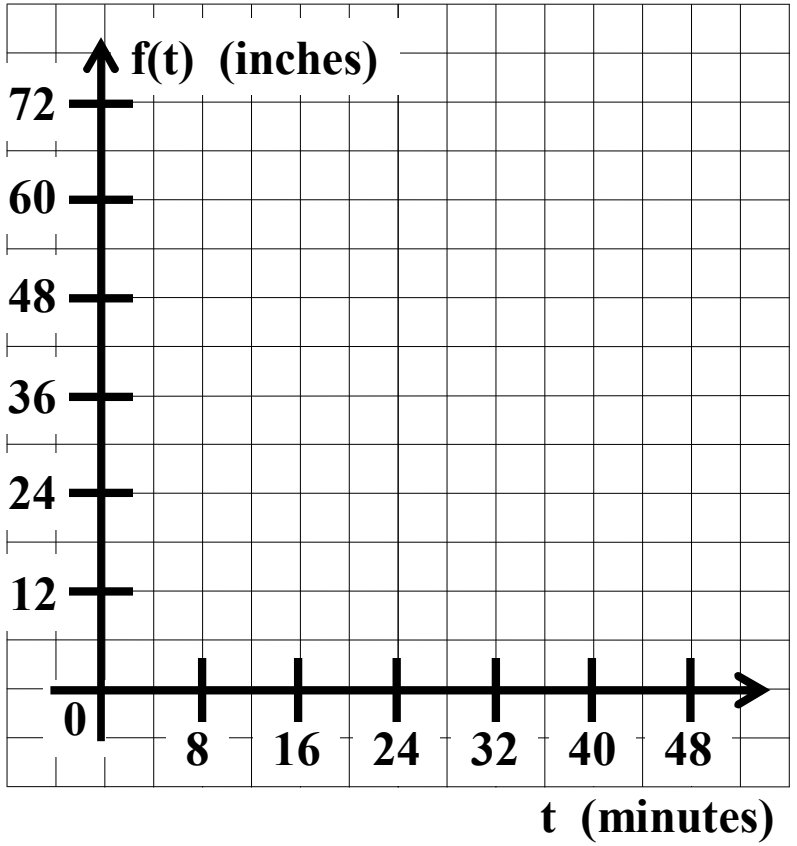

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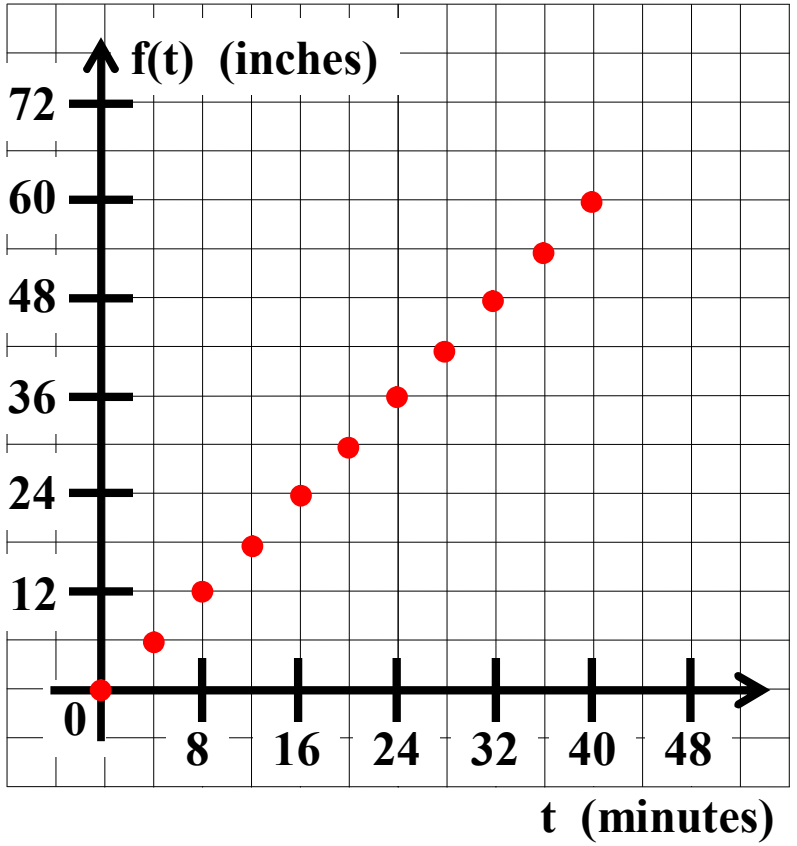

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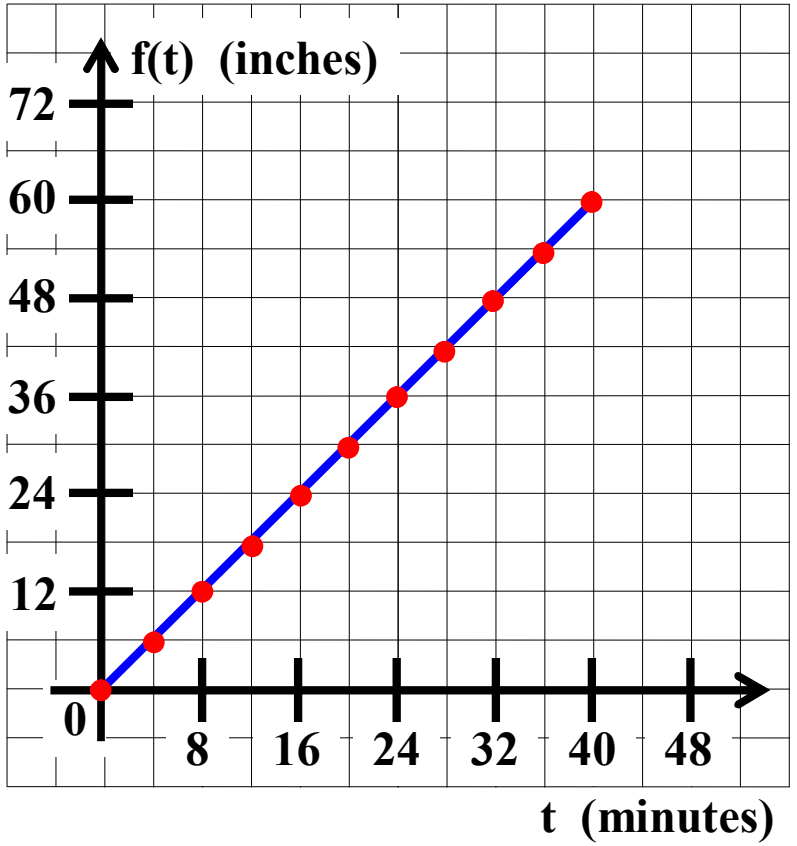

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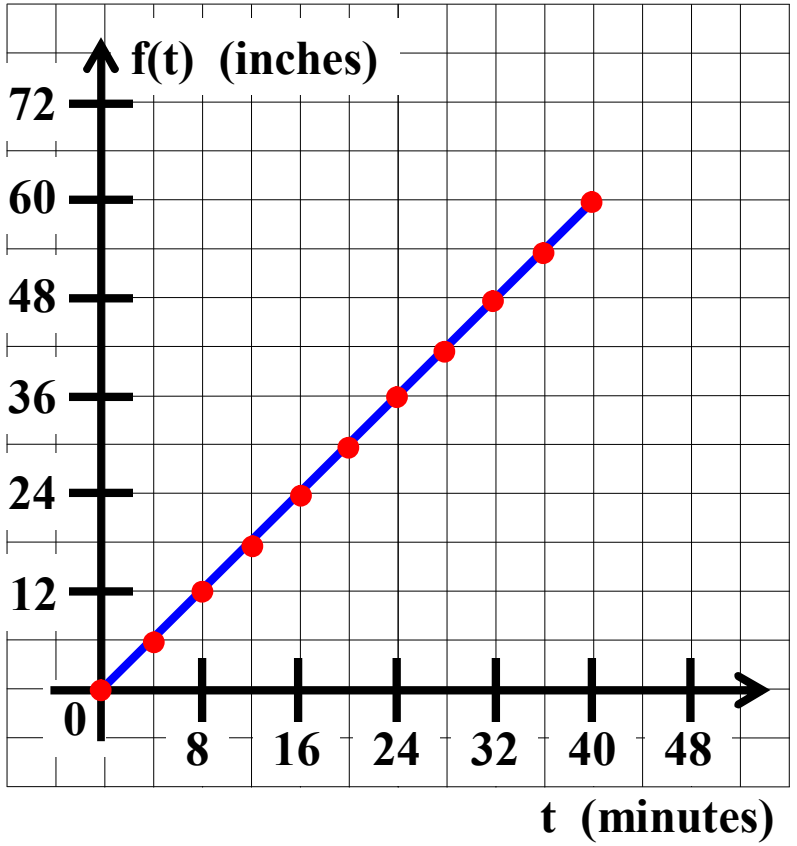

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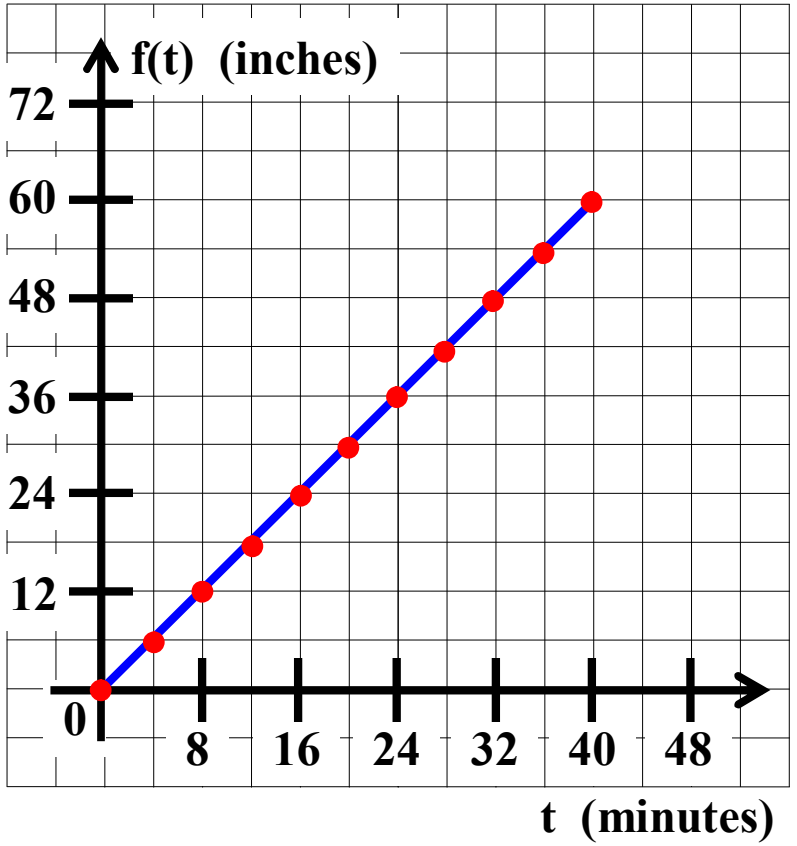
20	30
24	36
28	42
32	48
36	54
40	60

3. Graph function f.



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

General Algebra II CWS #5 Unit 6

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**).

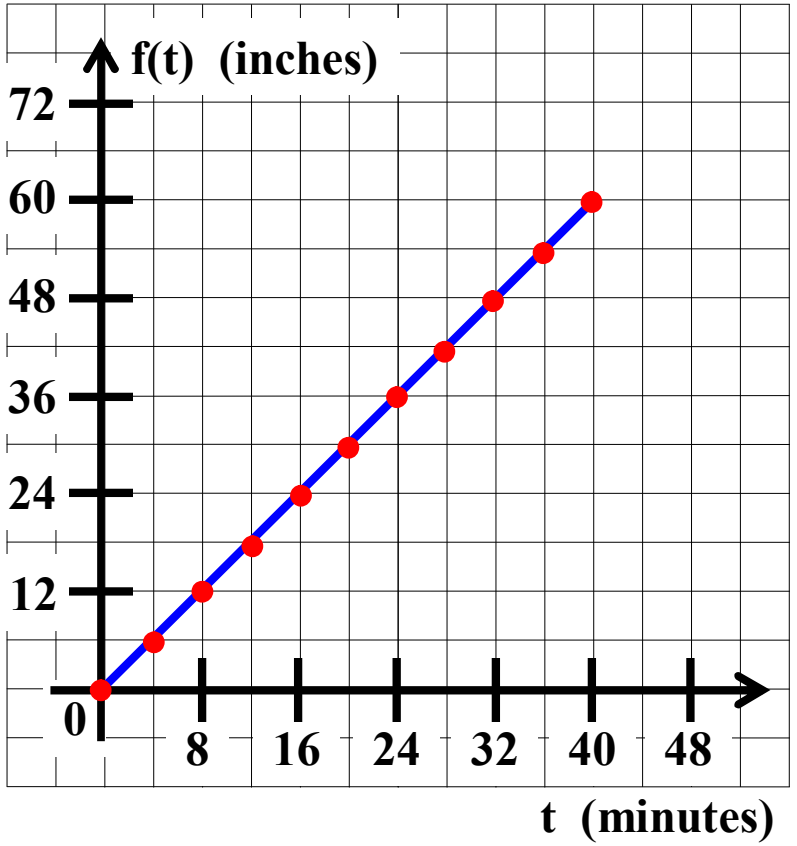
1. How long will it take to fill the tank? **40 minutes**

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

slope =

3. Graph function f.



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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**).

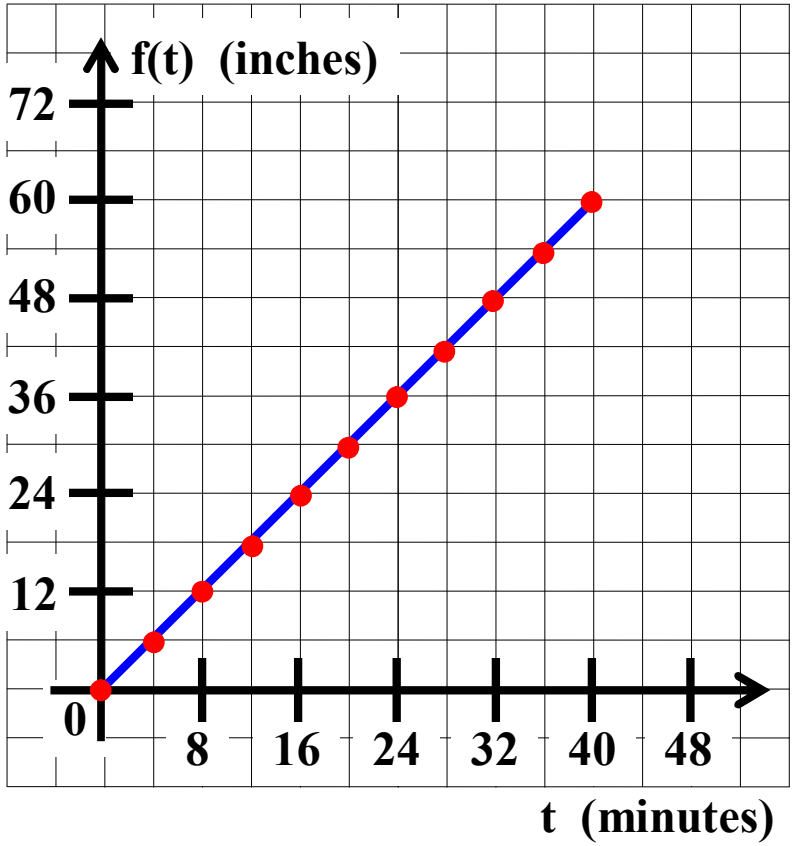
1. How long will it take to fill the tank? **40 minutes**

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

slope = $\frac{\text{rise}}{\text{run}}$

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
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36	54
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slope = $\frac{\text{rise}}{\text{run}}$

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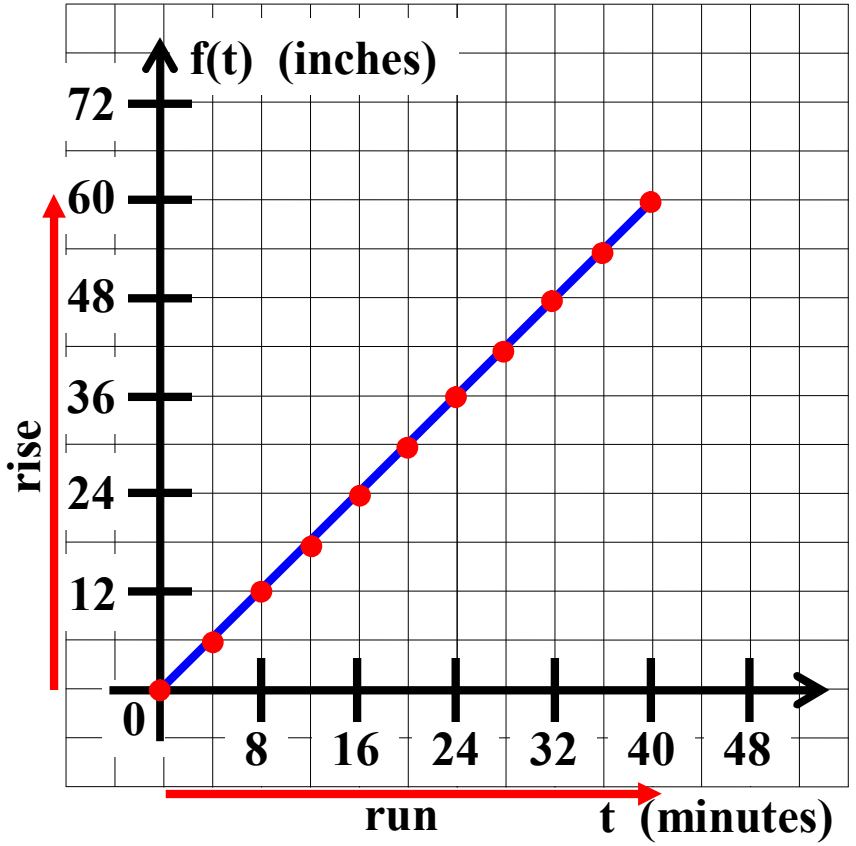

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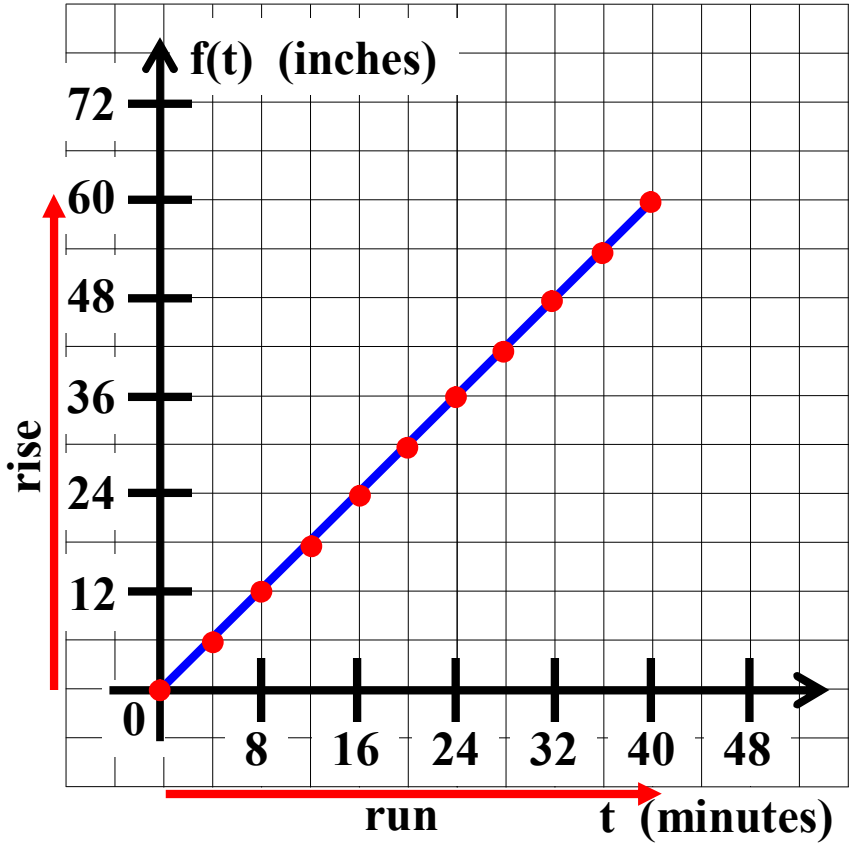
32	48
36	54
40	60

$$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{60}{40}$$

3. Graph function f.



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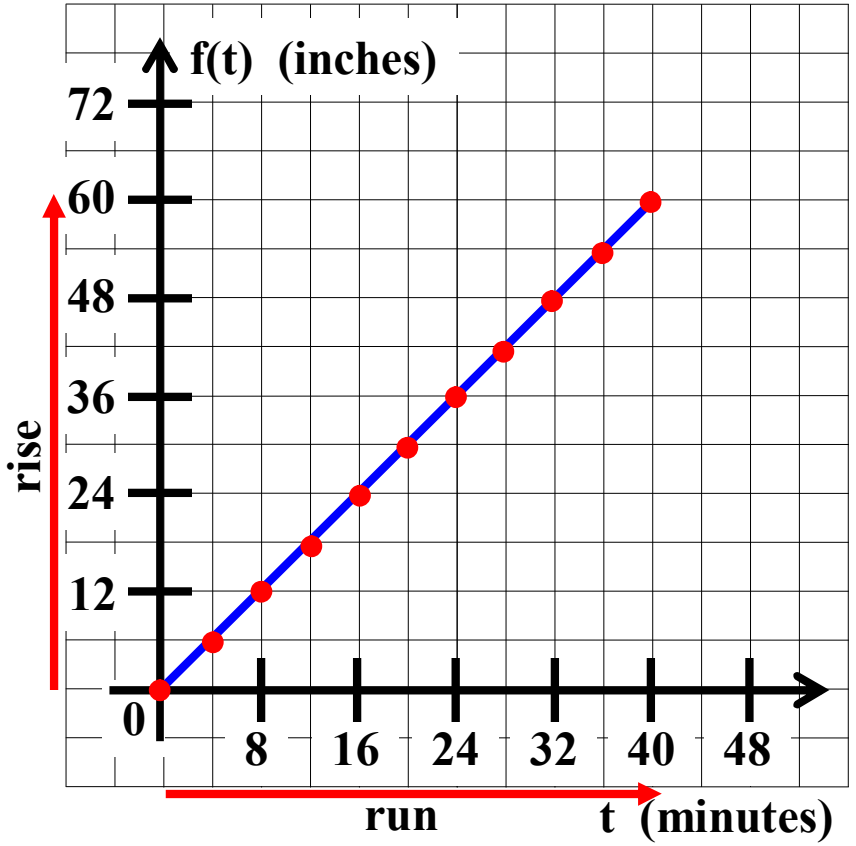

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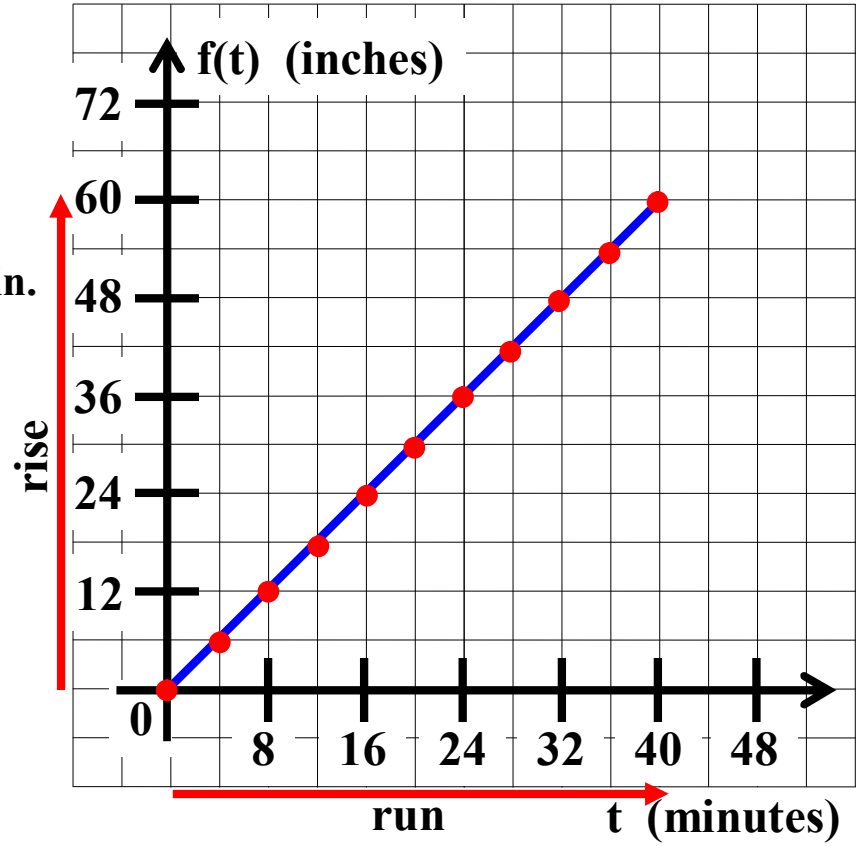

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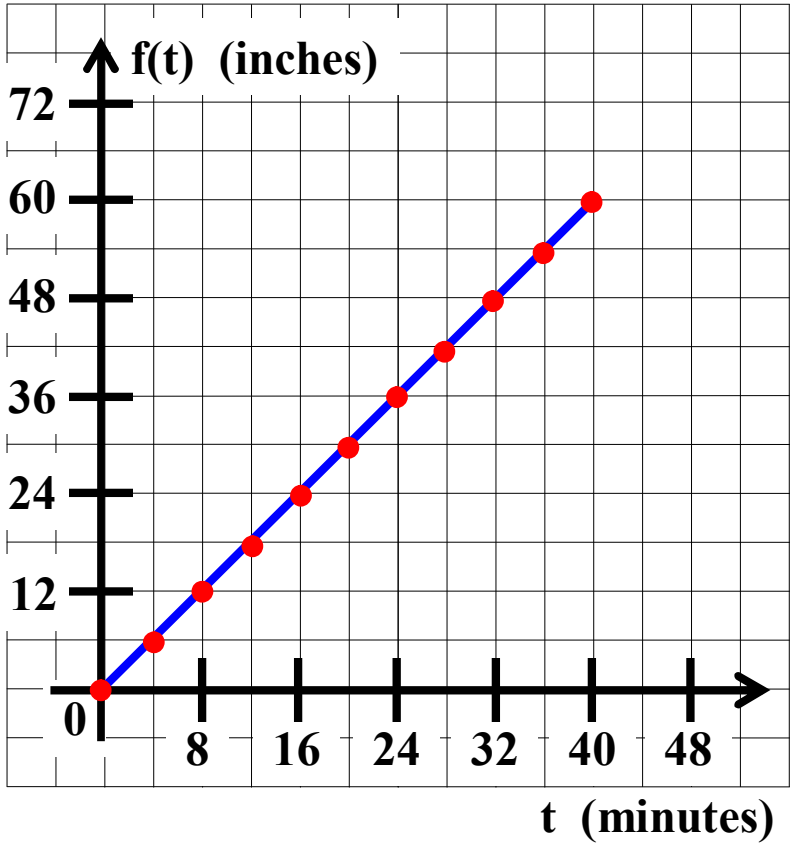

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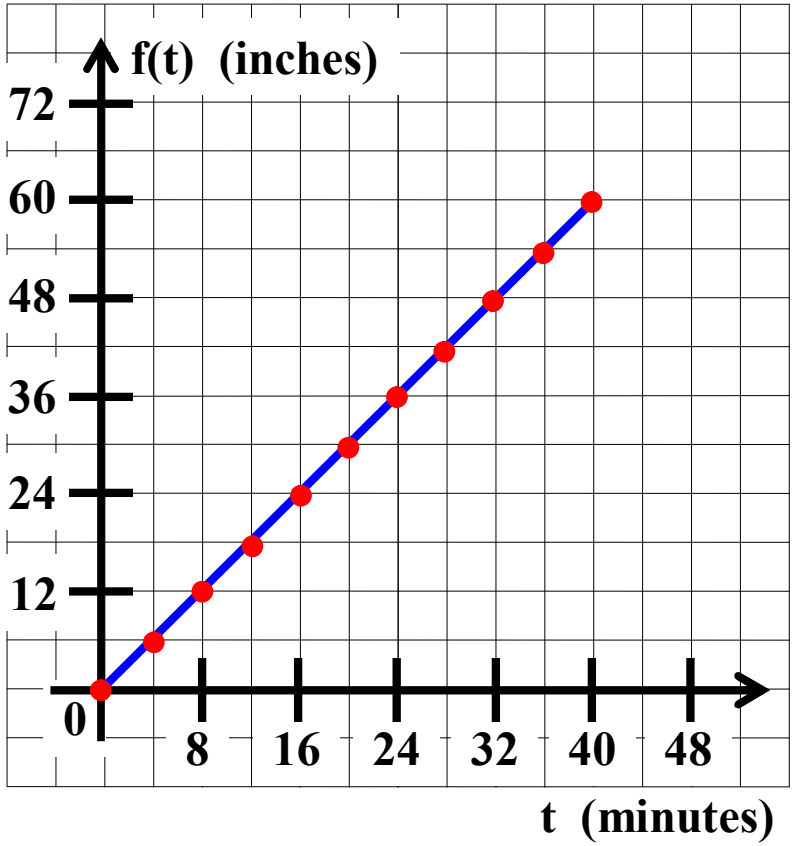
'y-intercept' =

3. Graph function f.



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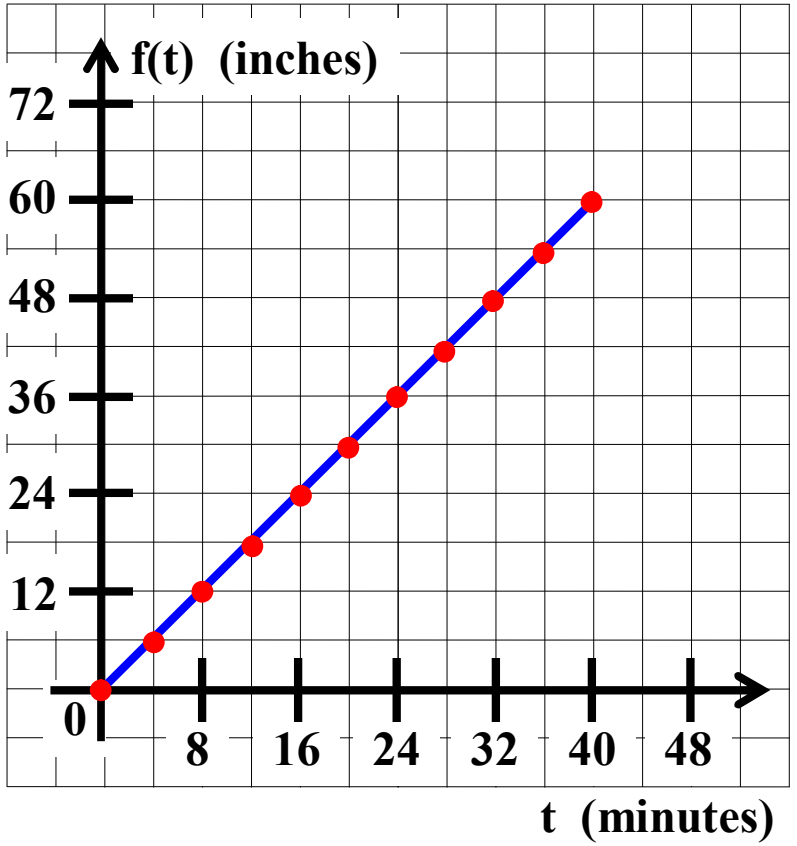

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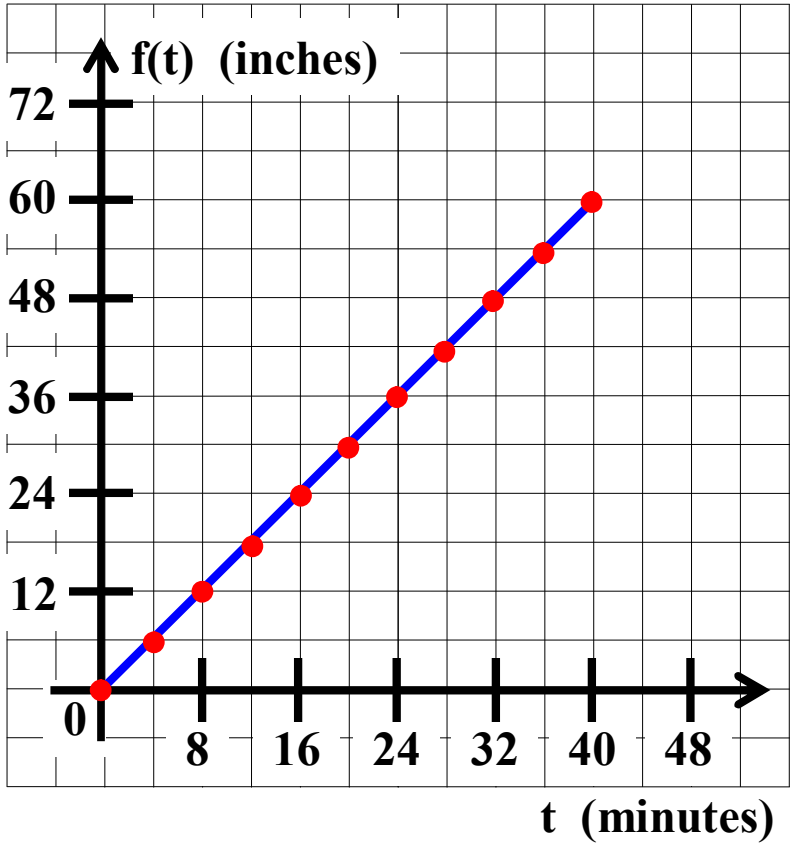
'y-intercept' = 0

$y = mx + b$

3. Graph function f.



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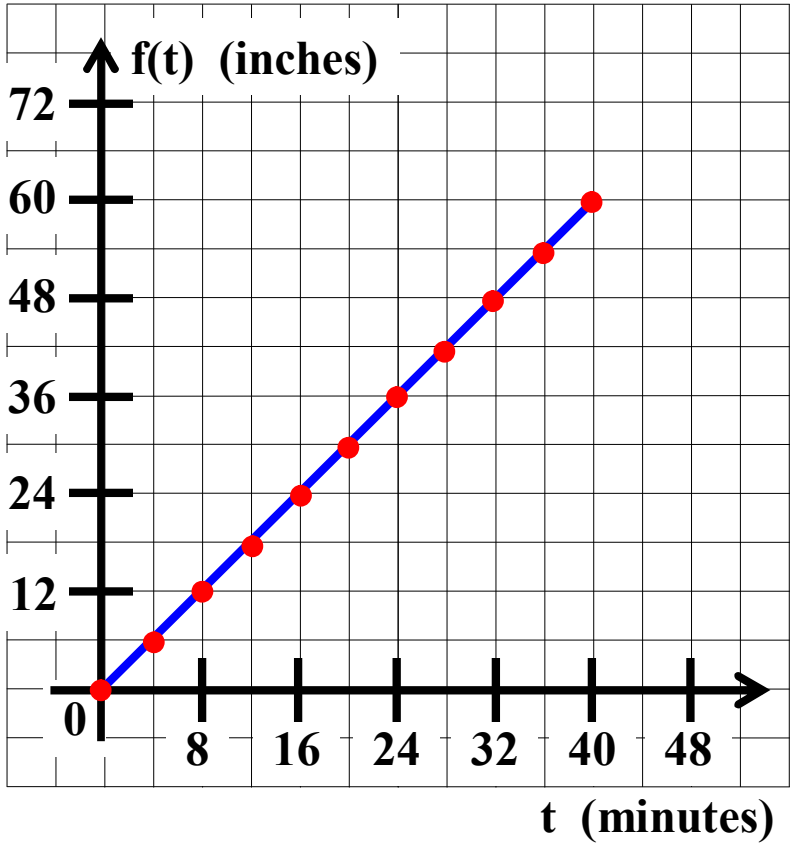

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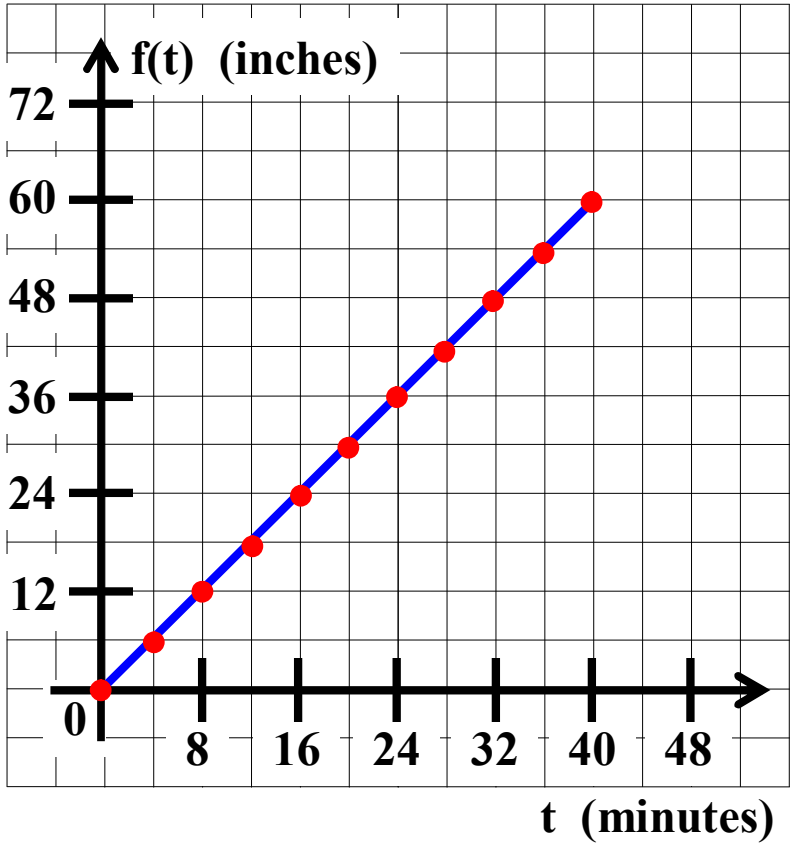

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$y = 1.5x + 0$

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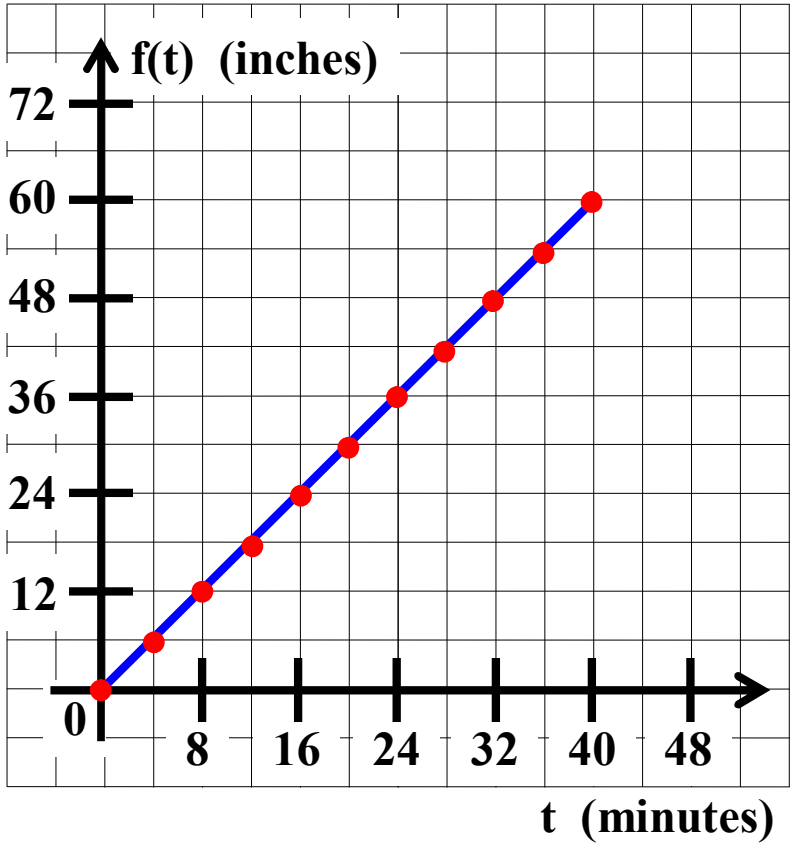

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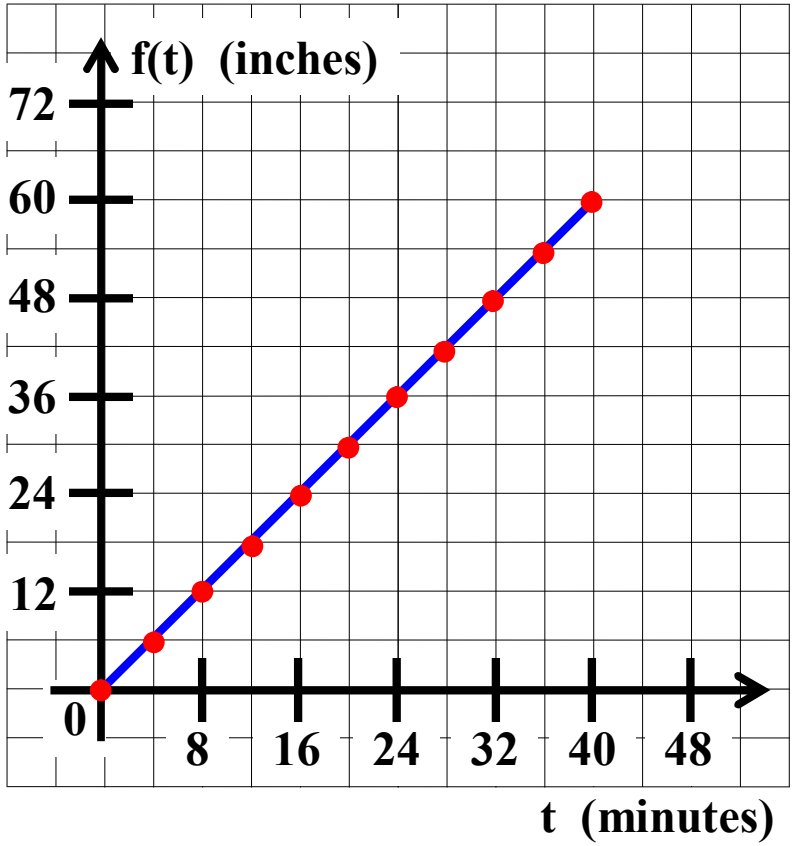

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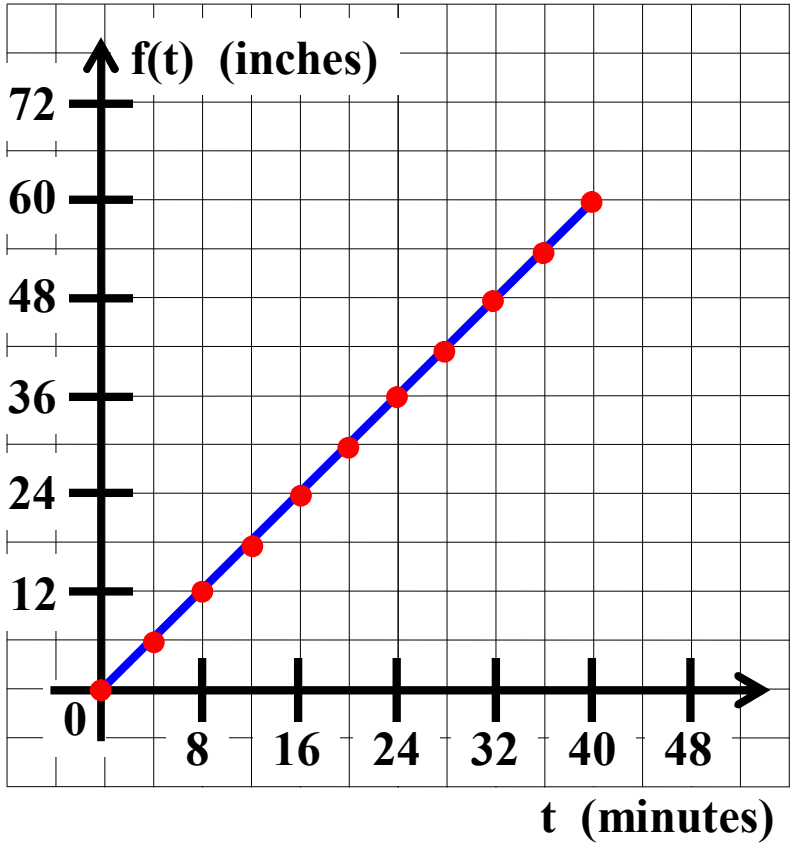

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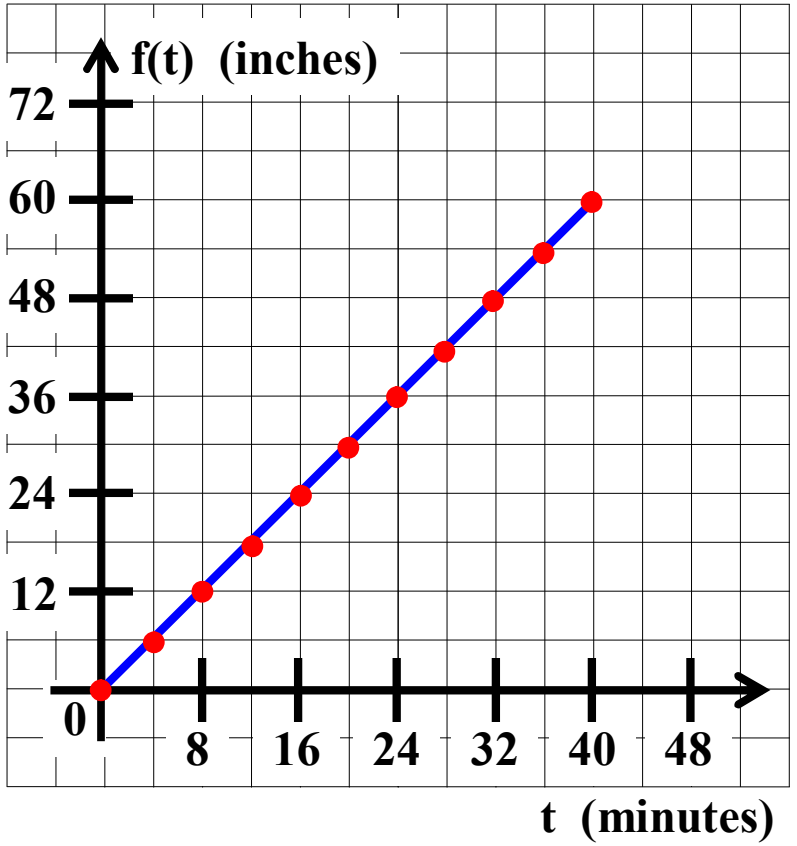

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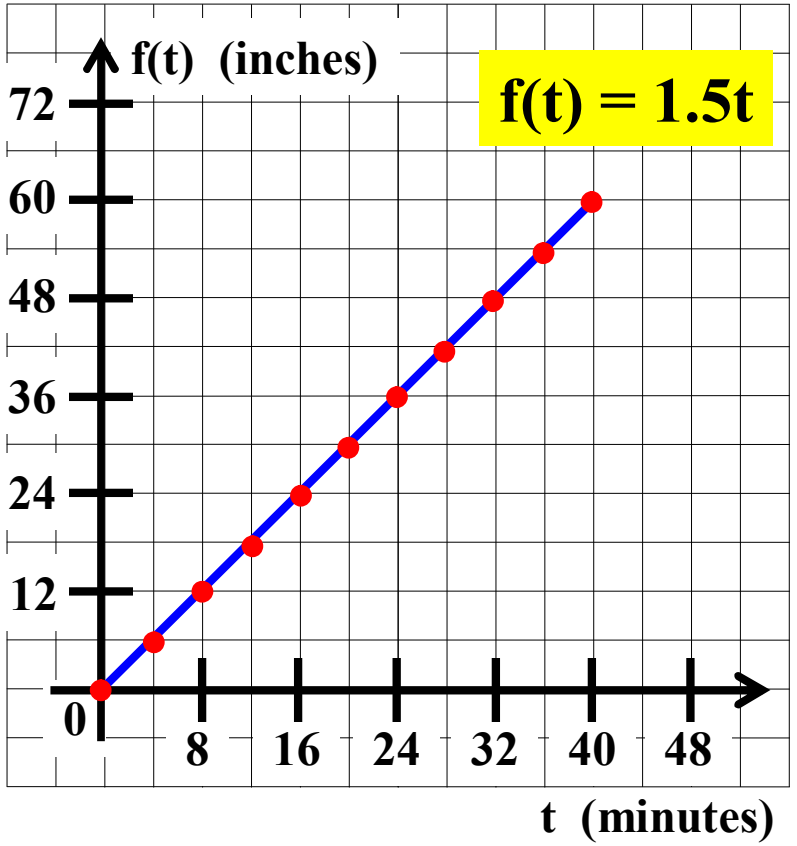

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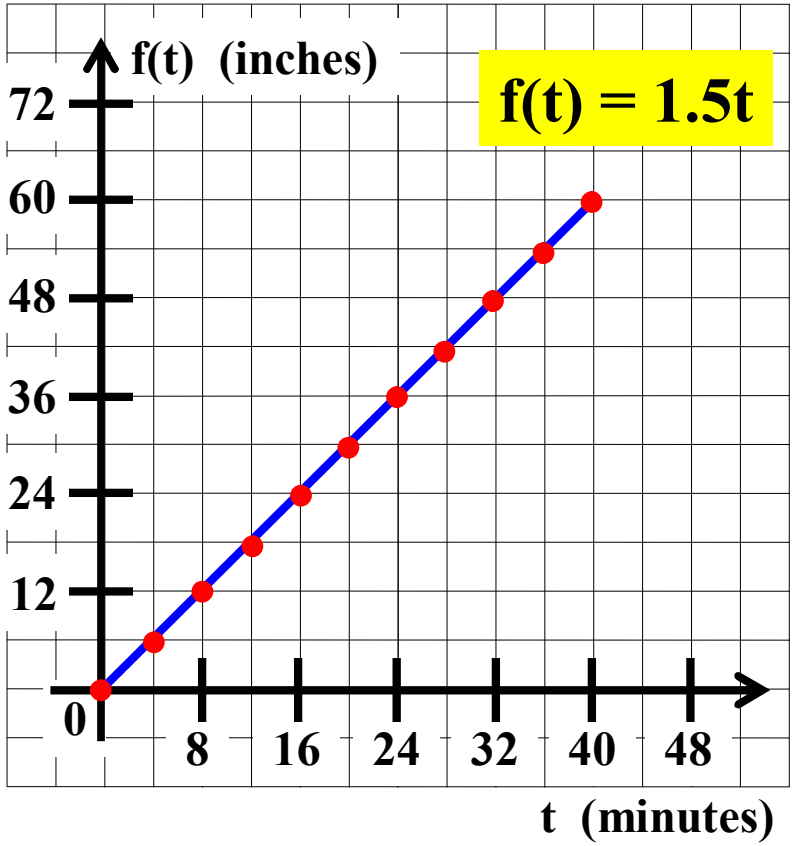

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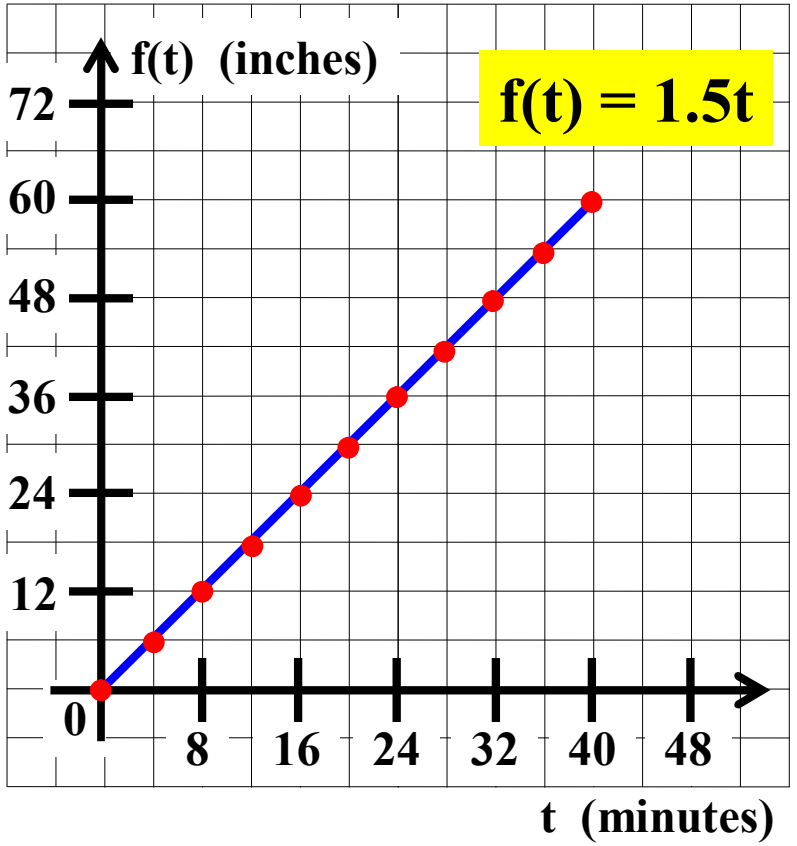

5. What is the domain of function f ? _____

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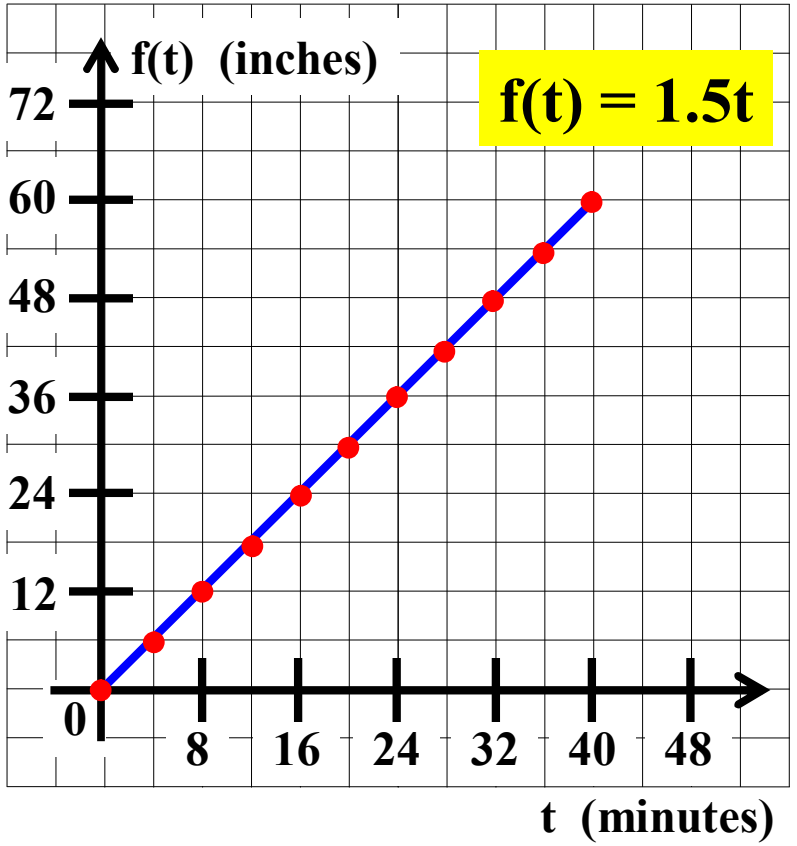
40	60

3. Graph function f.



5. What is the domain of function f ? _____

General Algebra II CWS #5 Unit 6

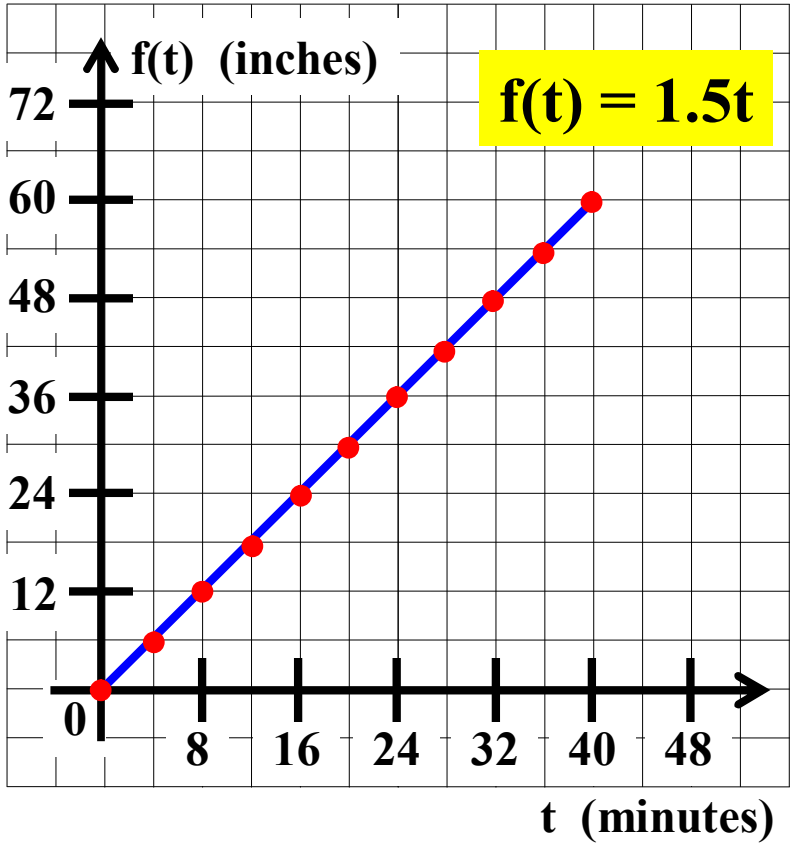
A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 cubic feet per minute until the tank is full.
Let t represent the time that water has been pumped into the tank (in **minutes**).
Let f(t) represent the **depth of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



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

General Algebra II CWS #5 Unit 6

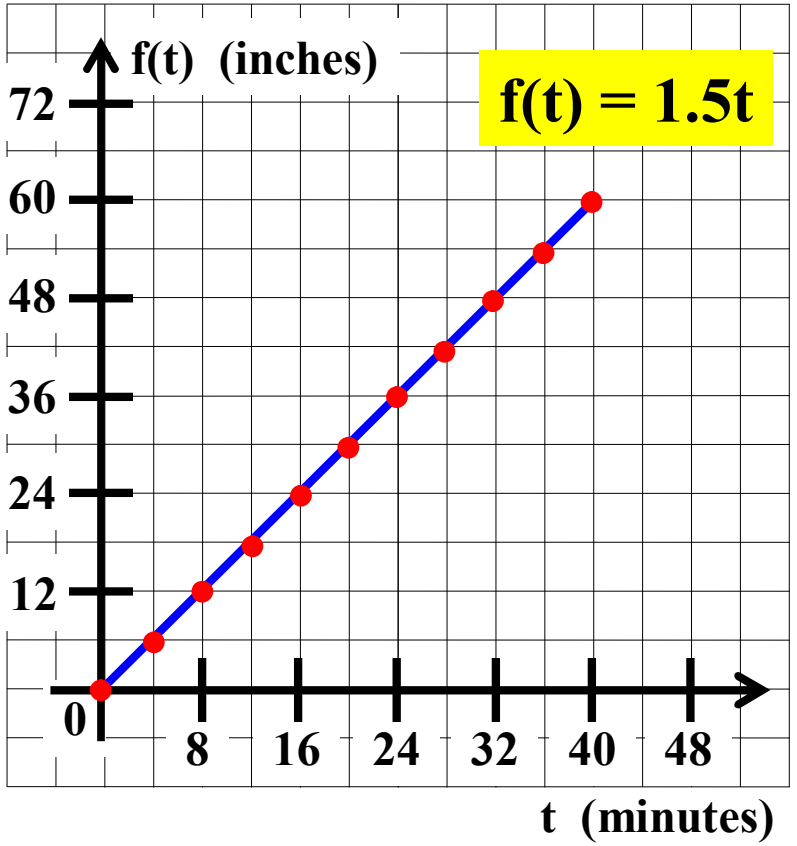
A rectangular water tank is 12 feet long, 6 feet wide, and 5 feet deep. The tank is empty initially and water is pumped into the tank at 9 cubic feet per minute until the tank is full.
Let t represent the time that water has been pumped into the tank (in **minutes**).
Let f(t) represent the **depth of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



5. What is the domain of function f ? **[0 , 40]**

General Algebra II CWS #5 Unit 6

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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**).

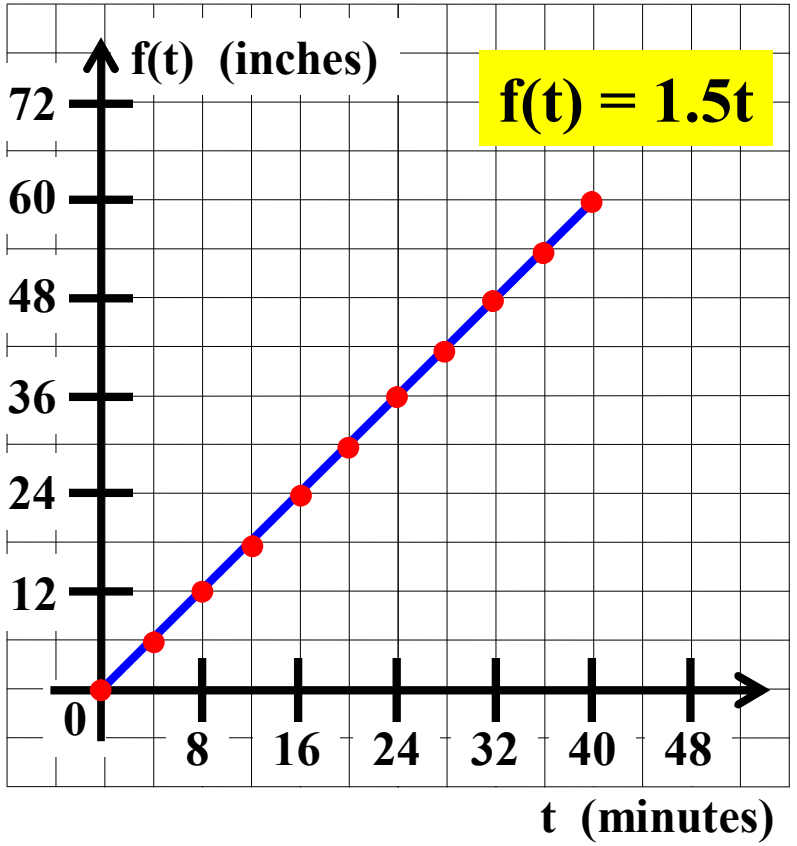
1. How long will it take to fill the tank? **40 minutes**

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

domain
[0 , 40]

3. Graph function f.



5. What is the domain of function f ? **[0 , 40]**

General Algebra II CWS #5 Unit 6

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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**).

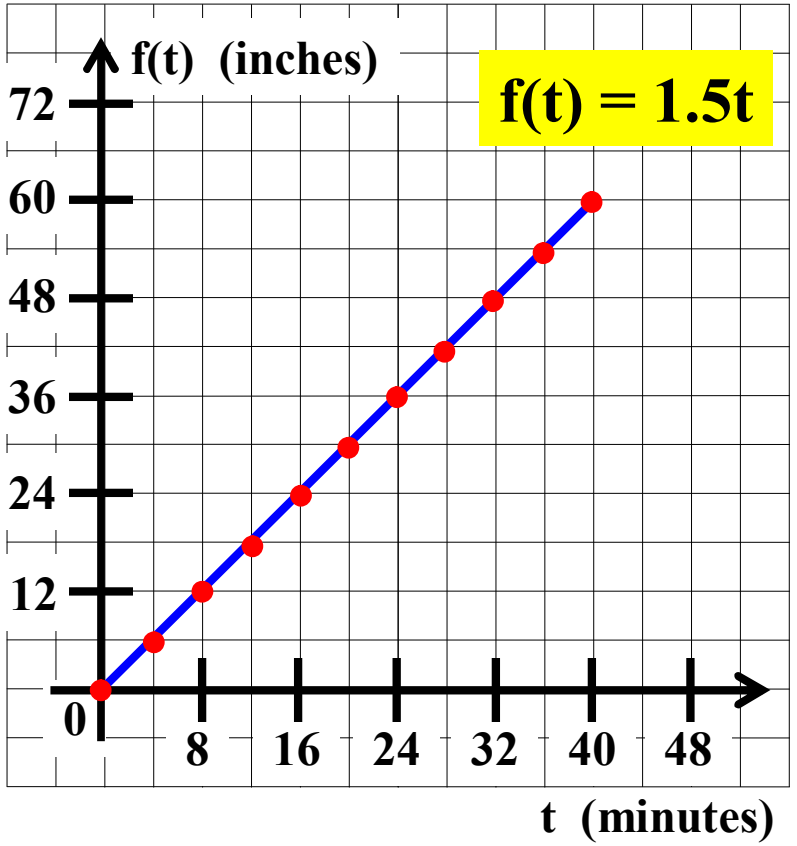
1. How long will it take to fill the tank? **40 minutes**

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

domain
[0 , 40]

3. Graph function f.



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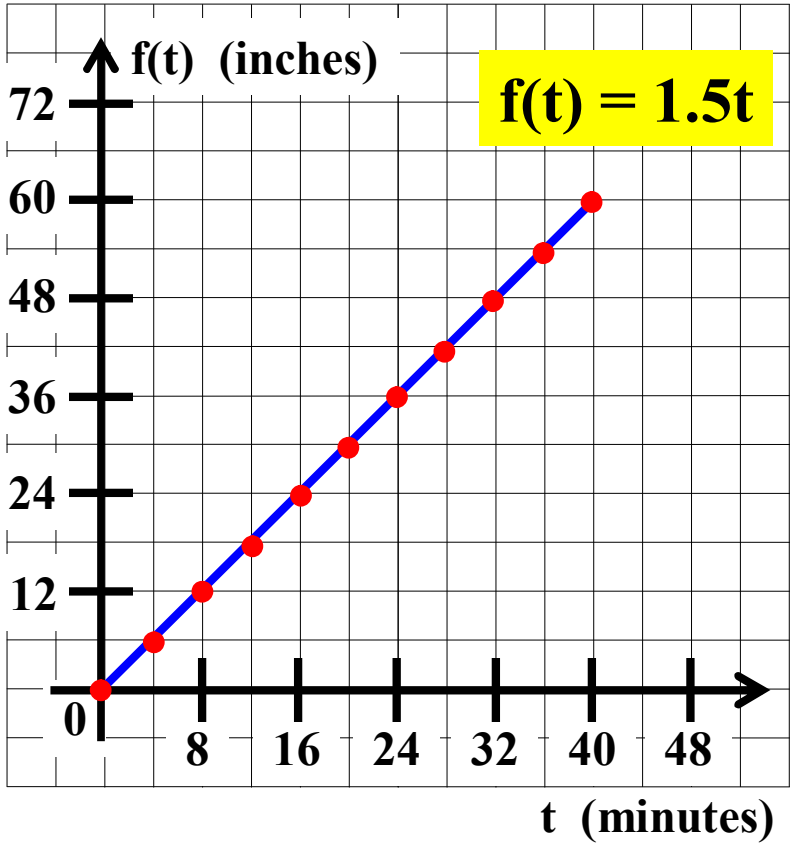
1. How long will it take to fill the tank? **40 minutes**

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 , 40]

3. Graph function f.



6. What is the range of function f ? _____

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Let t represent the time that water has been pumped into the tank (in **minutes**).
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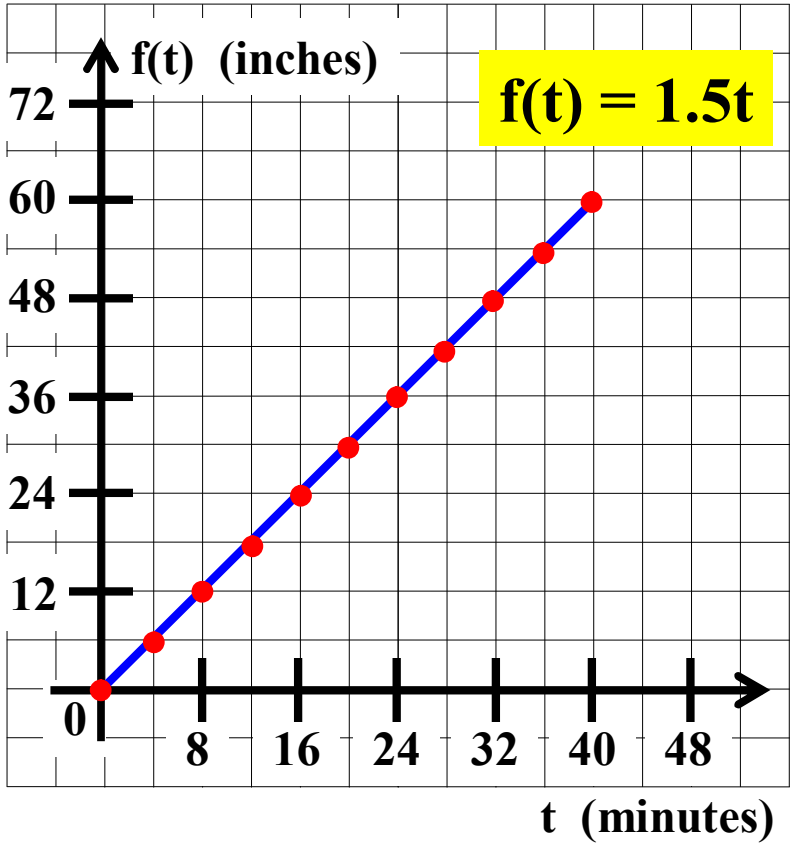
1. How long will it take to fill the tank? **40 minutes**

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

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

domain
[0 , 40]

3. Graph function f.



6. What is the range of function f ? _____

General Algebra II CWS #5 Unit 6

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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**).

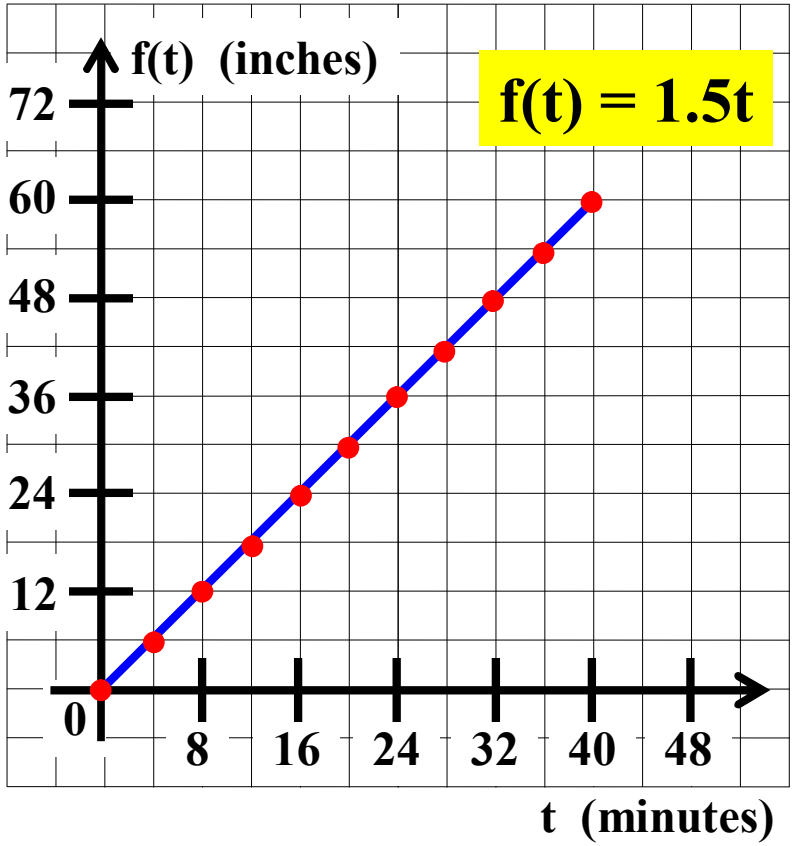
1. How long will it take to fill the tank? **40 minutes**

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

domain
[0 , 40]

3. Graph function f.



6. What is the range of function f ? **[0 ,** _____

General Algebra II CWS #5 Unit 6

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

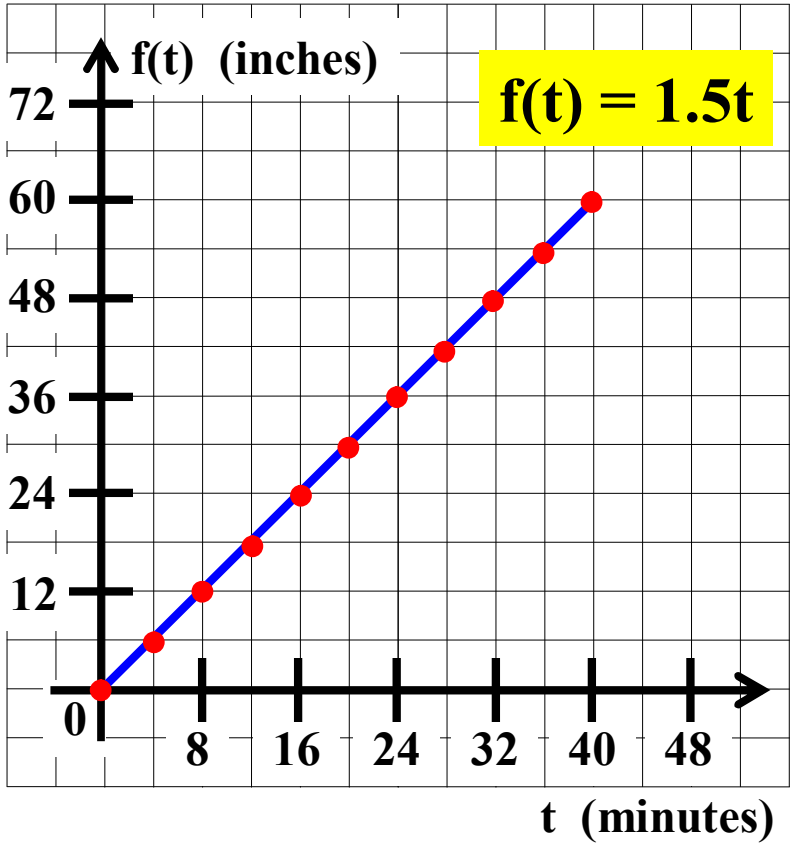
1. How long will it take to fill the tank? **40 minutes**

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 , 40]

3. Graph function f.



6. What is the range of function f ? **[0 , 60]**

General Algebra II CWS #5 Unit 6

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

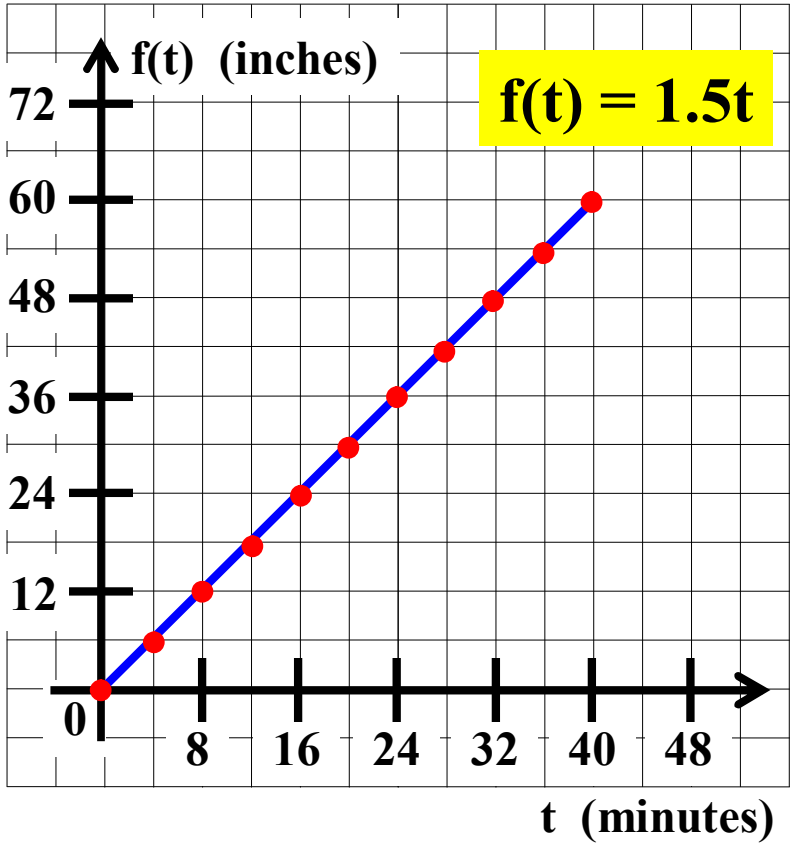
1. How long will it take to fill the tank? **40 minutes**

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 , 40]
range
[0 , 60]

3. Graph function f.



6. What is the range of function f ? **[0 , 60]**

General Algebra II CWS #5 Unit 6

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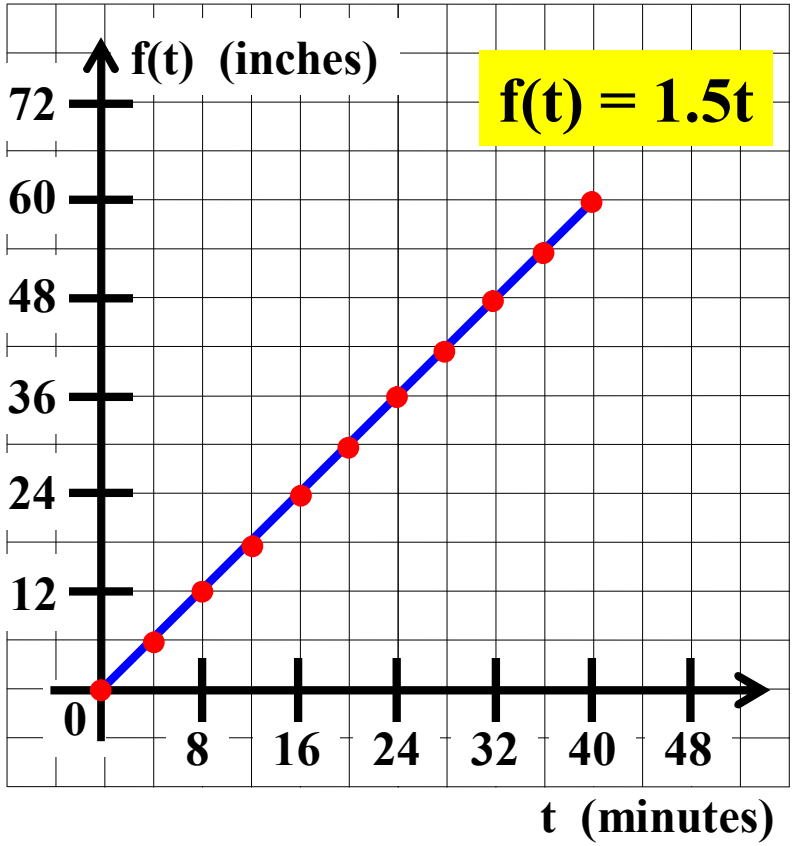
2. Make a table giving t and f(t) every 4 minutes from t = 0 until the tank is full.

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 , 40]
range
[0 , 60]

3. Graph function f.



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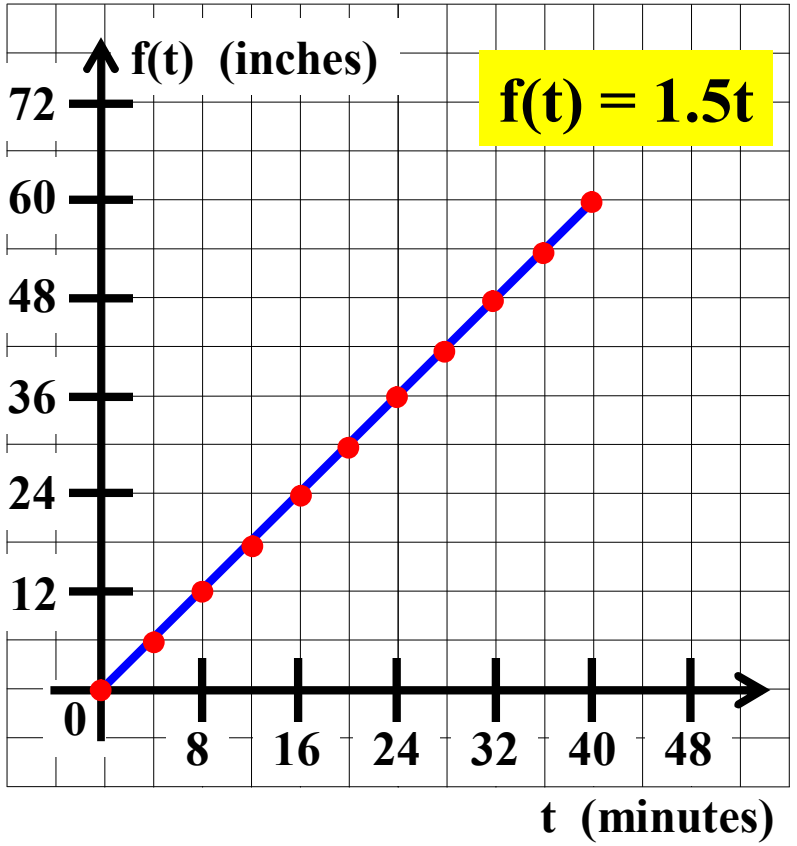
t	f(t)
0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain
[0 , 40]
range
[0 , 60]

7. Evaluate f(20).

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

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

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[0 , 40]
range
[0 , 60]

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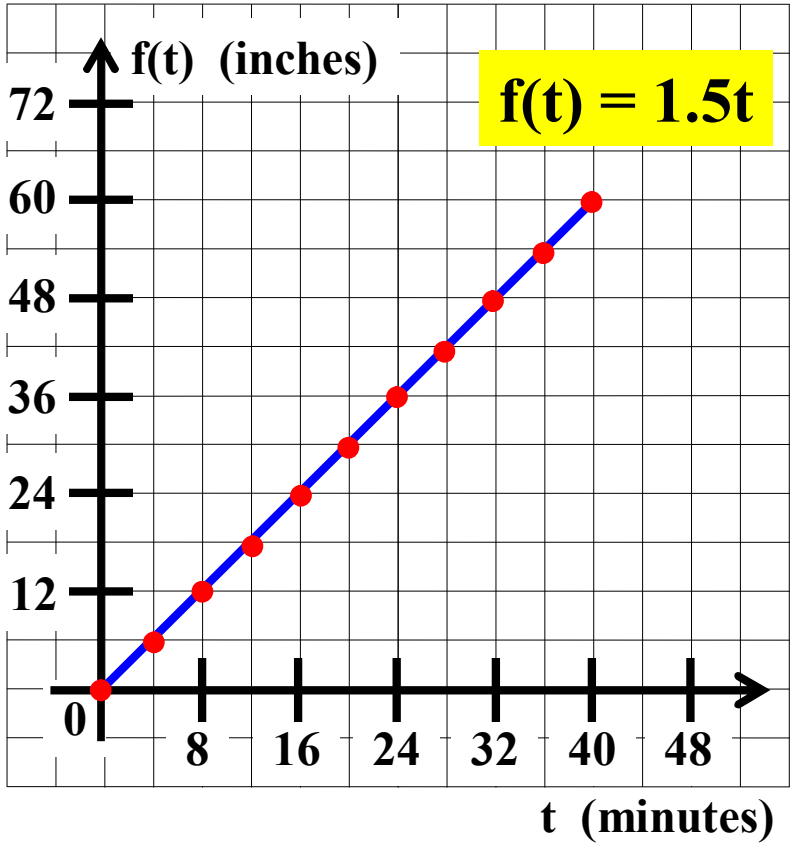

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0	0
4	6
8	12
12	18
16	24
20	30
24	36
28	42
32	48
36	54
40	60

domain
[0 , 40]
range
[0 , 60]

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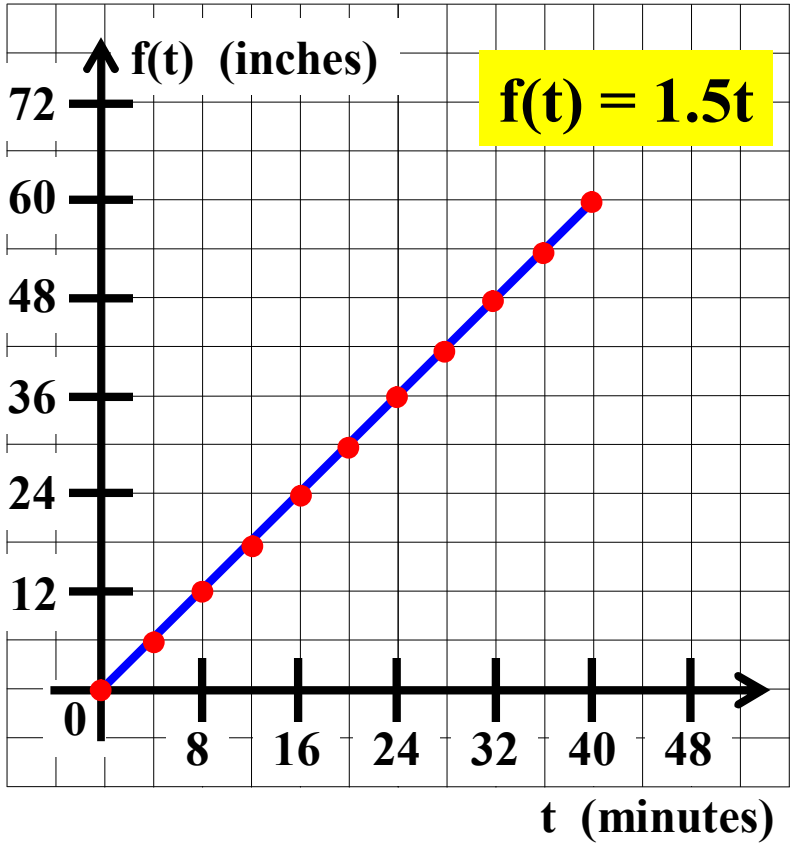
What does f(20) represent in terms of the problem?

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.

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

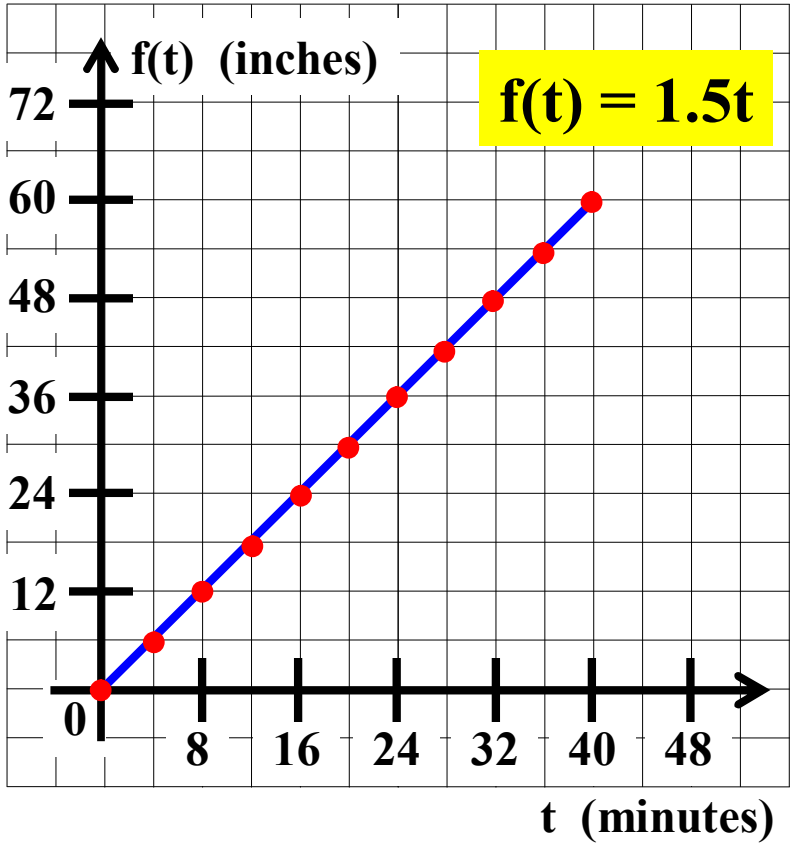
domain
[0 , 40]
range
[0 , 60]

7. Evaluate f(20).

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

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

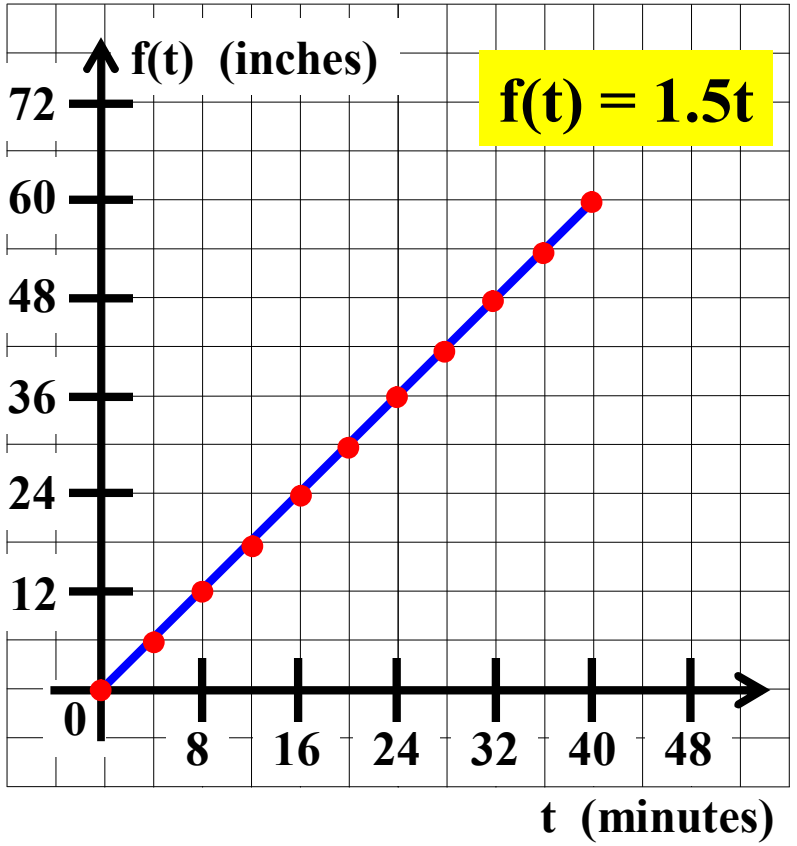
domain
[0 , 40]
range
[0 , 60]

7. Evaluate f(20).

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

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

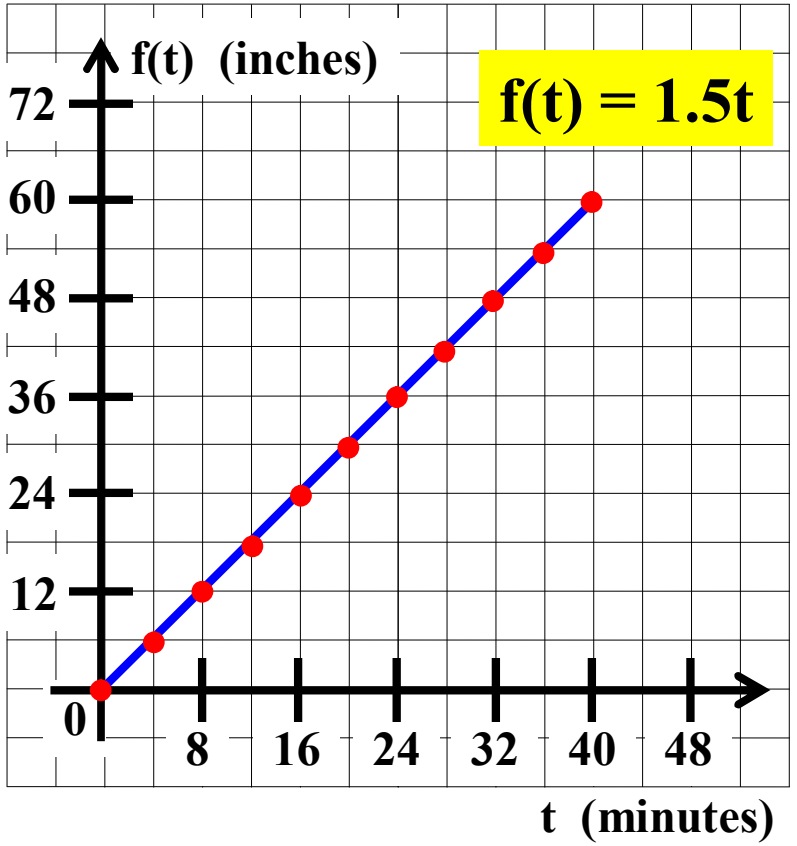
domain
[0 , 40]
range
[0 , 60]

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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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

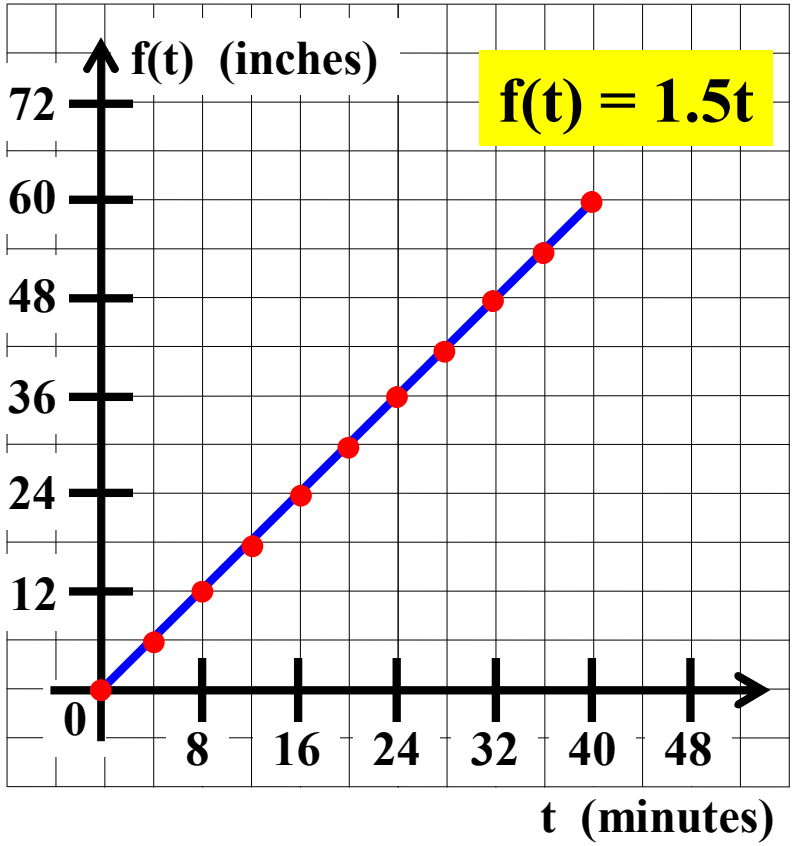
domain
[0 , 40]
range
[0 , 60]

7. Evaluate f(20).

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

f(20) = 30 inches

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

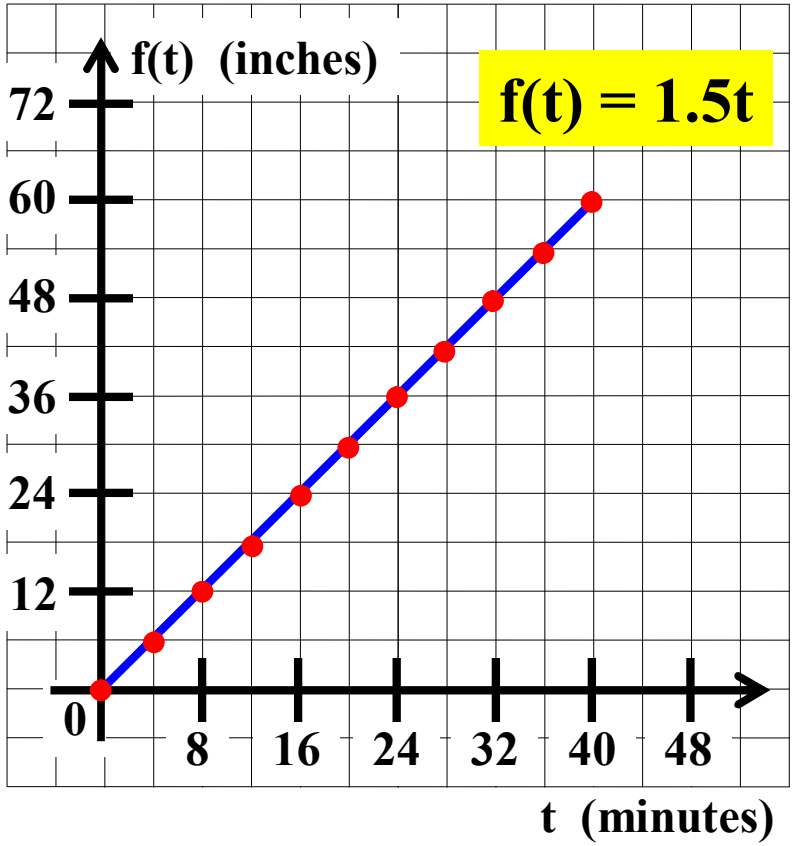
domain
[0 , 40]
range
[0 , 60]

7. Evaluate f(20).

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

f(20) = 30 inches

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

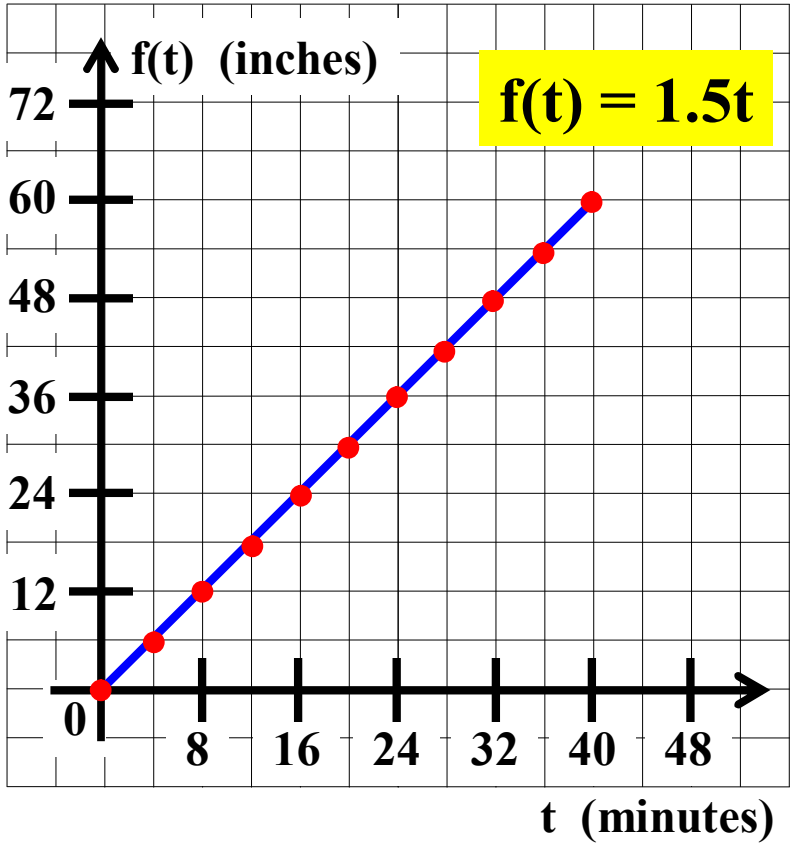
domain
[0 , 40]
range
[0 , 60]

7. Evaluate f(20).

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

f(20) = 30 inches

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.

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 , 40]
range
[0 , 60]

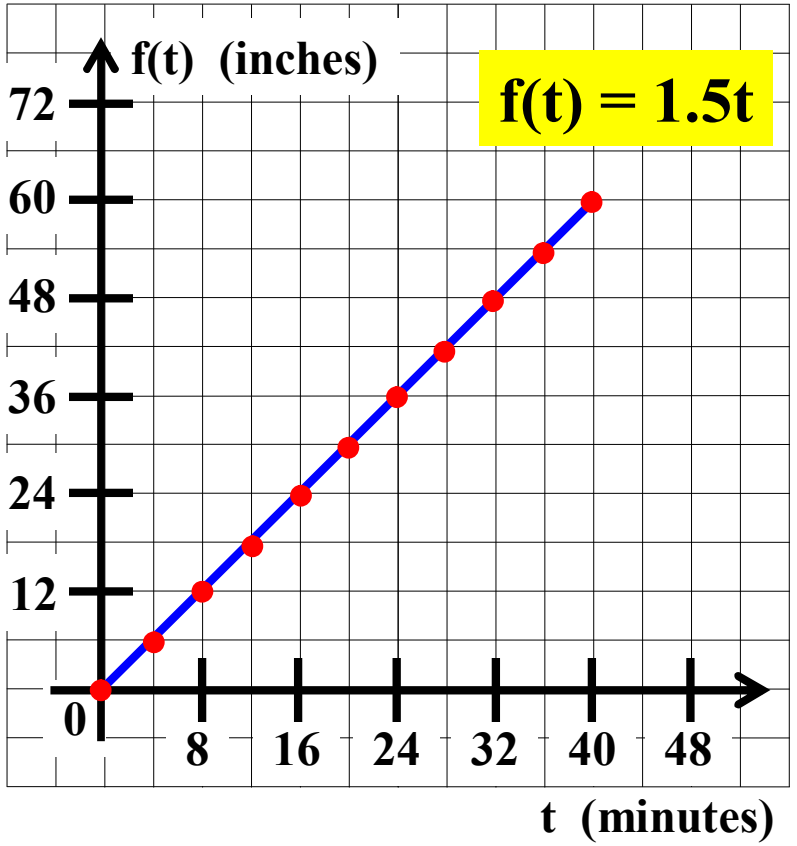
7. Evaluate f(20).

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

f(20) = 30 inches

f(20) represents

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 , 40]
range
[0 , 60]

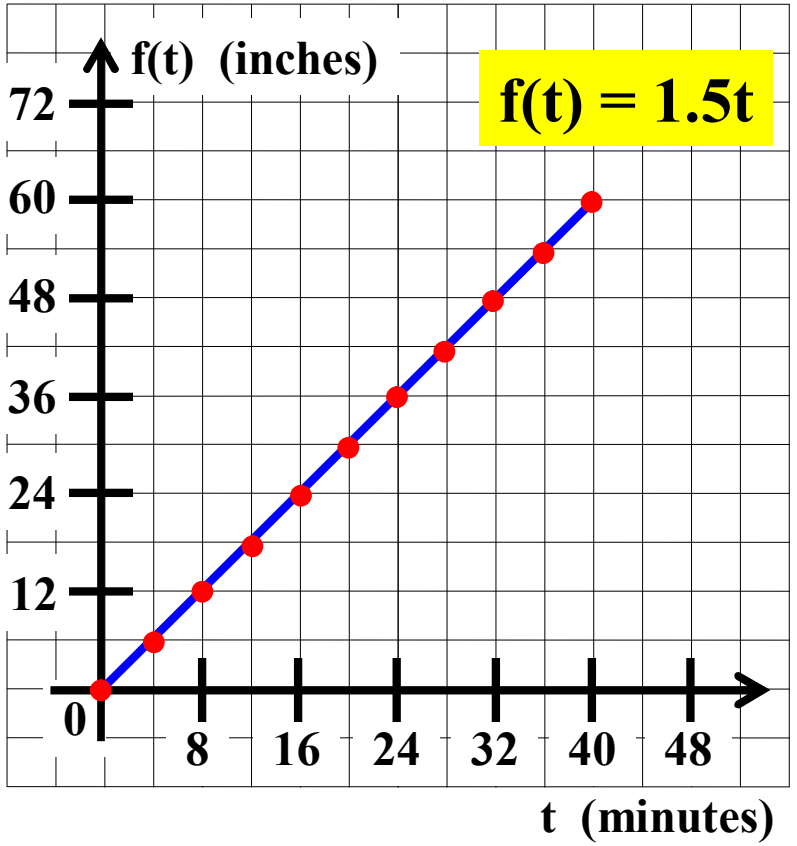
7. Evaluate f(20).

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

f(20) = 30 inches

f(20) represents the depth of the water

3. Graph function f.



General Algebra II CWS #5 Unit 6

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

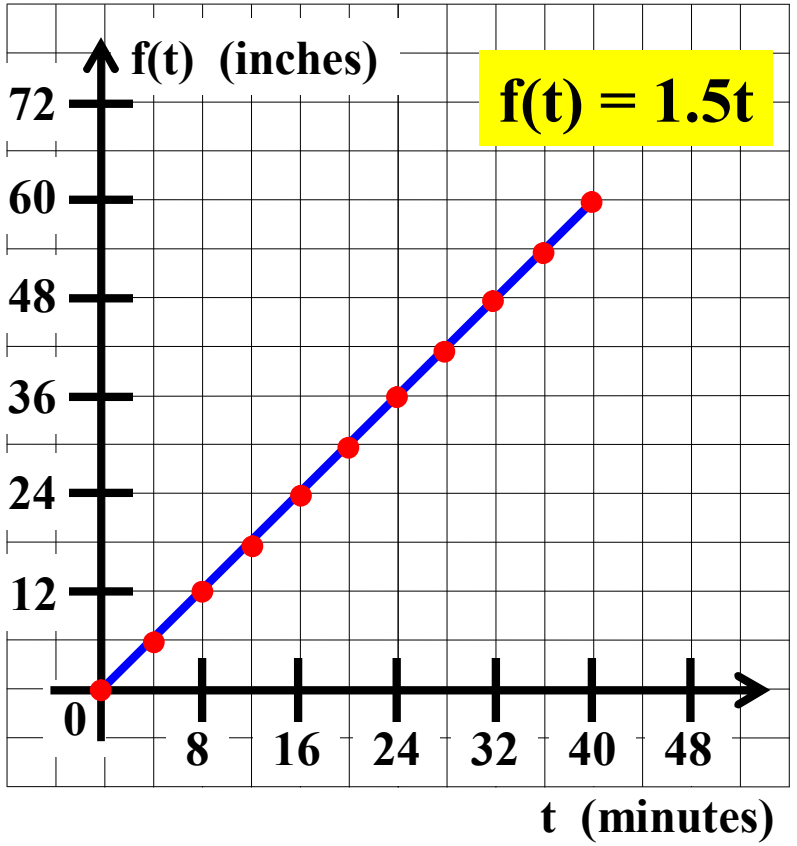
domain
[0 , 40]
range
[0 , 60]

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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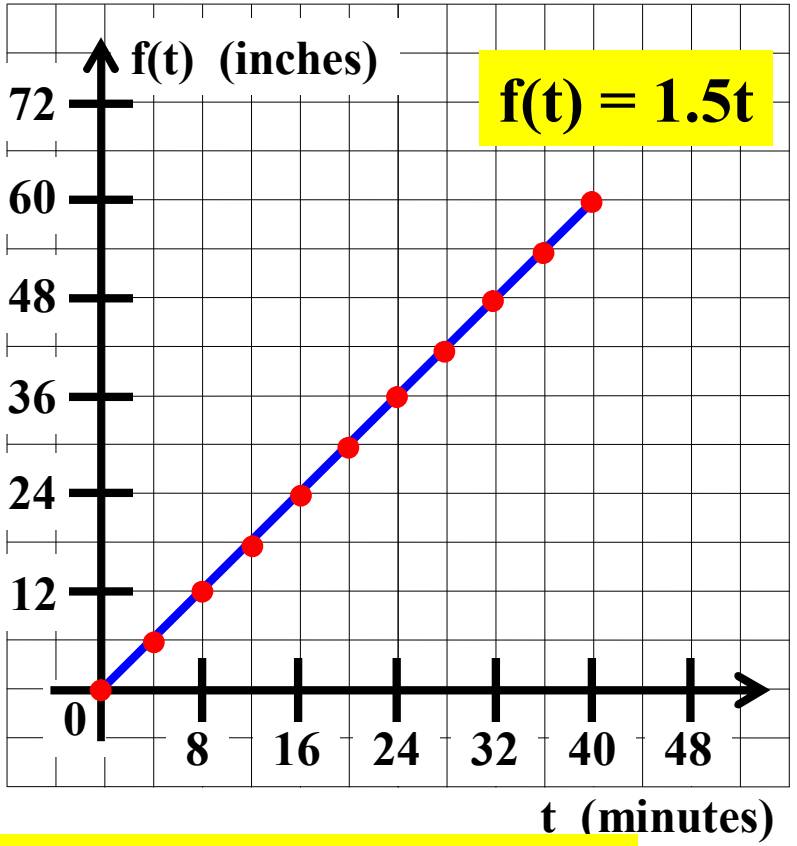

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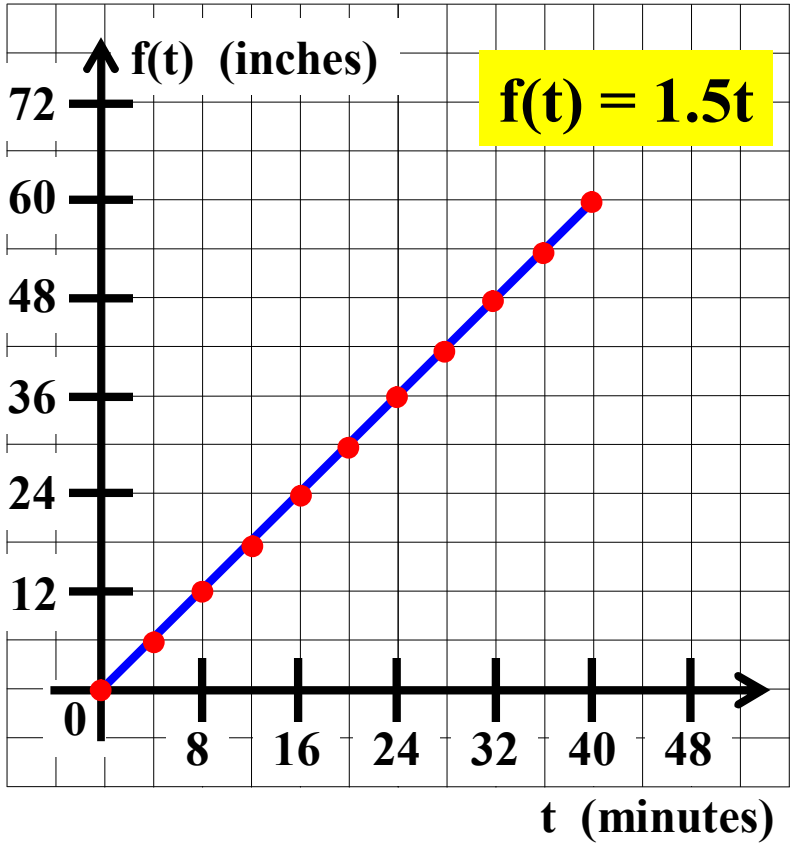

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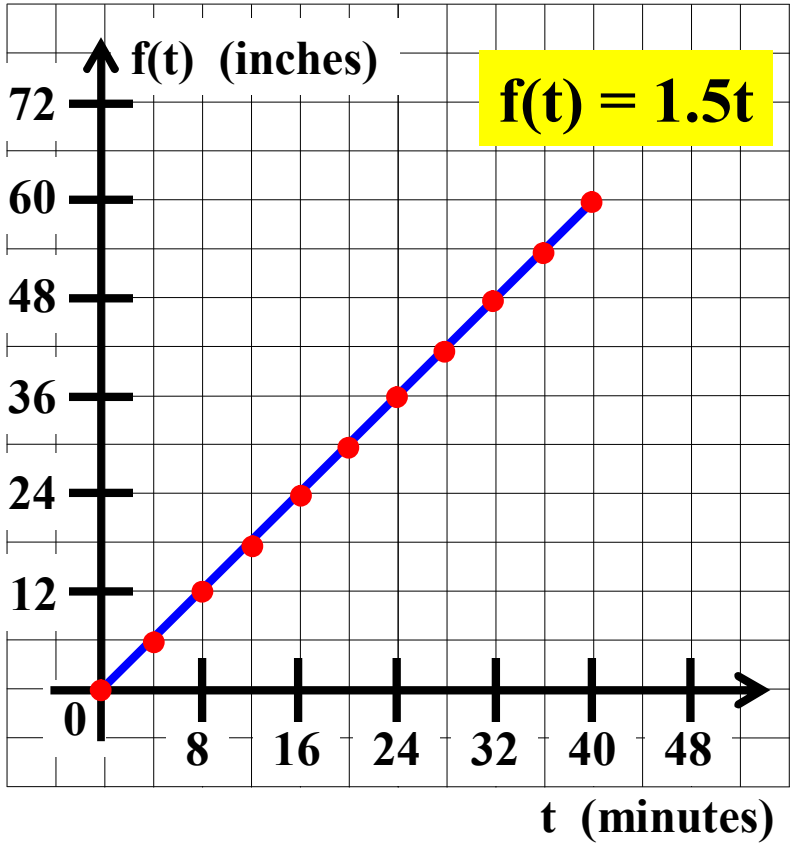

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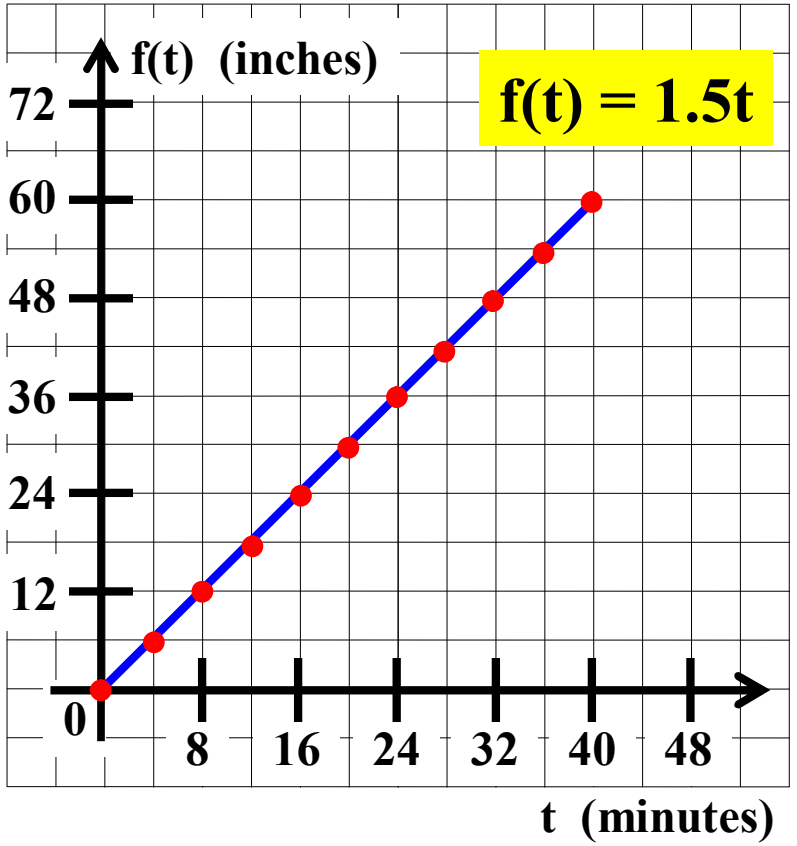

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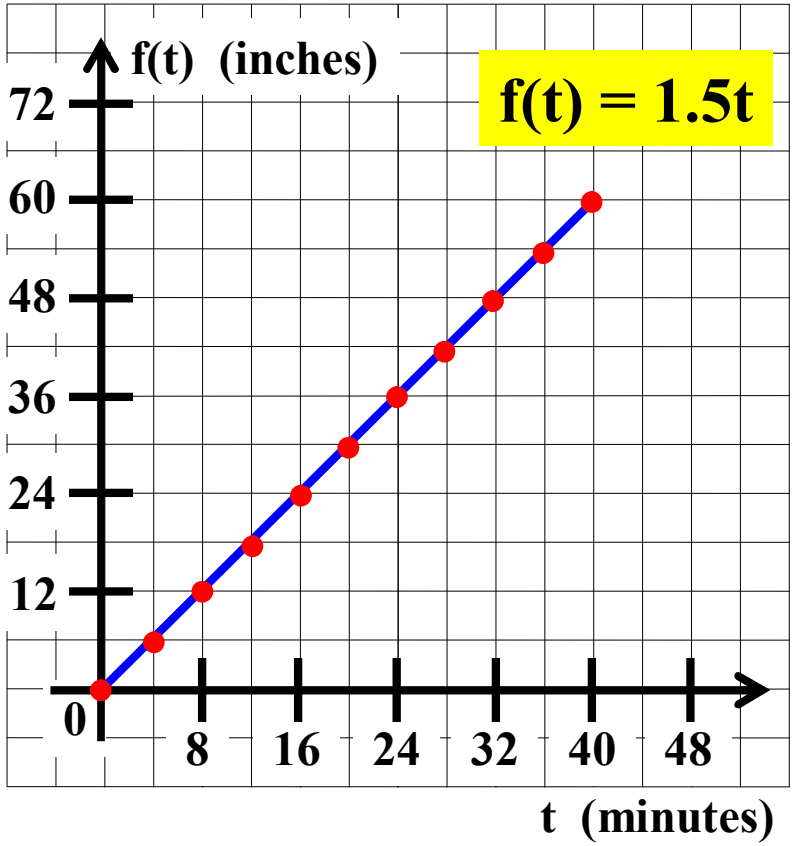

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$f(t) = 20$
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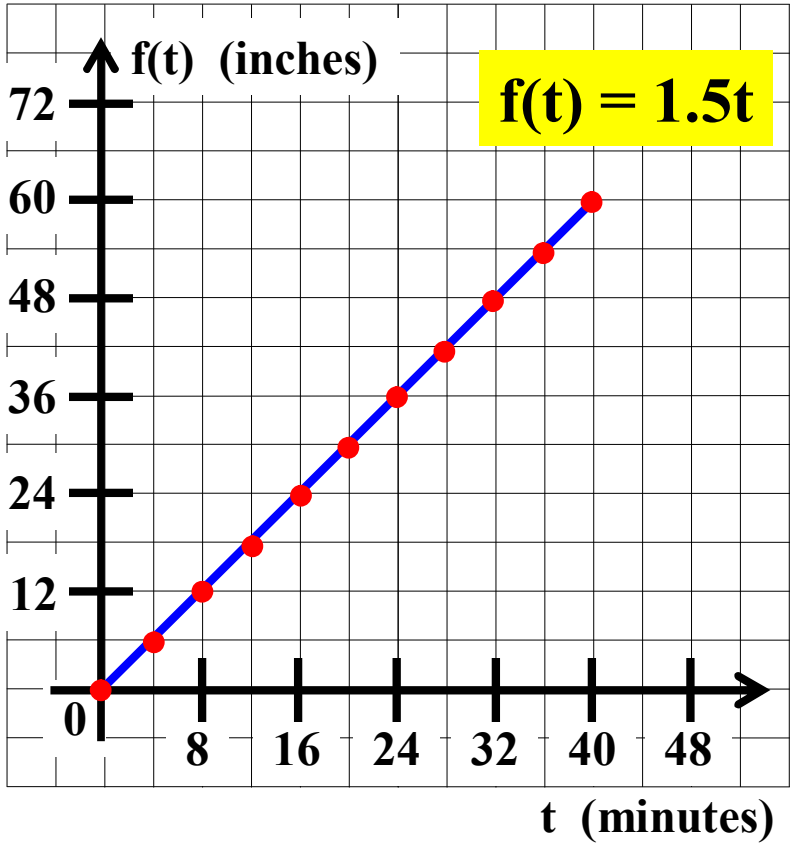

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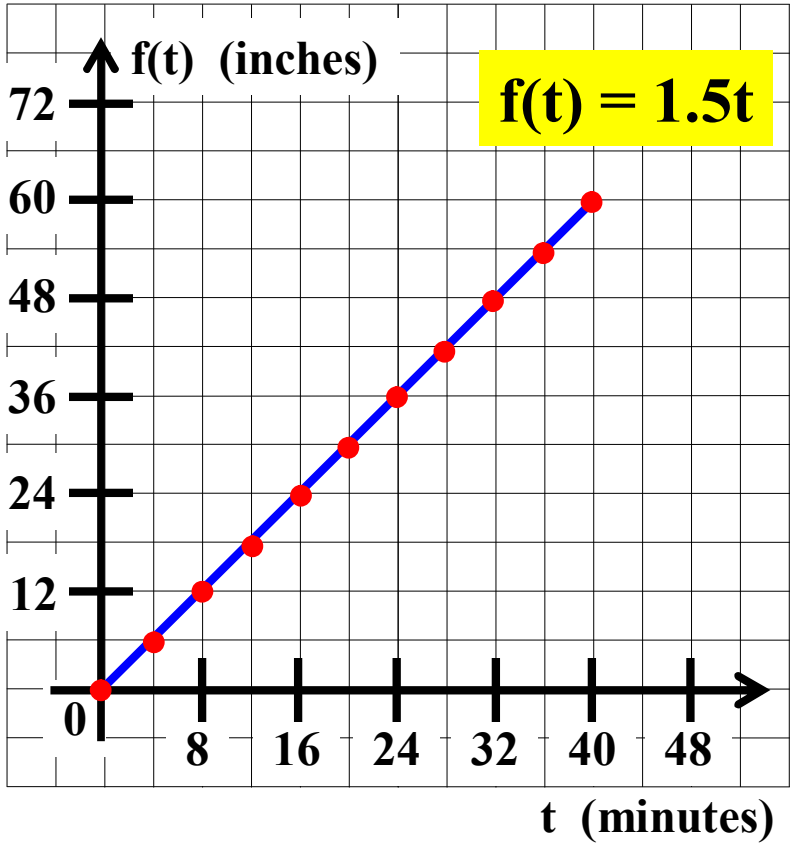

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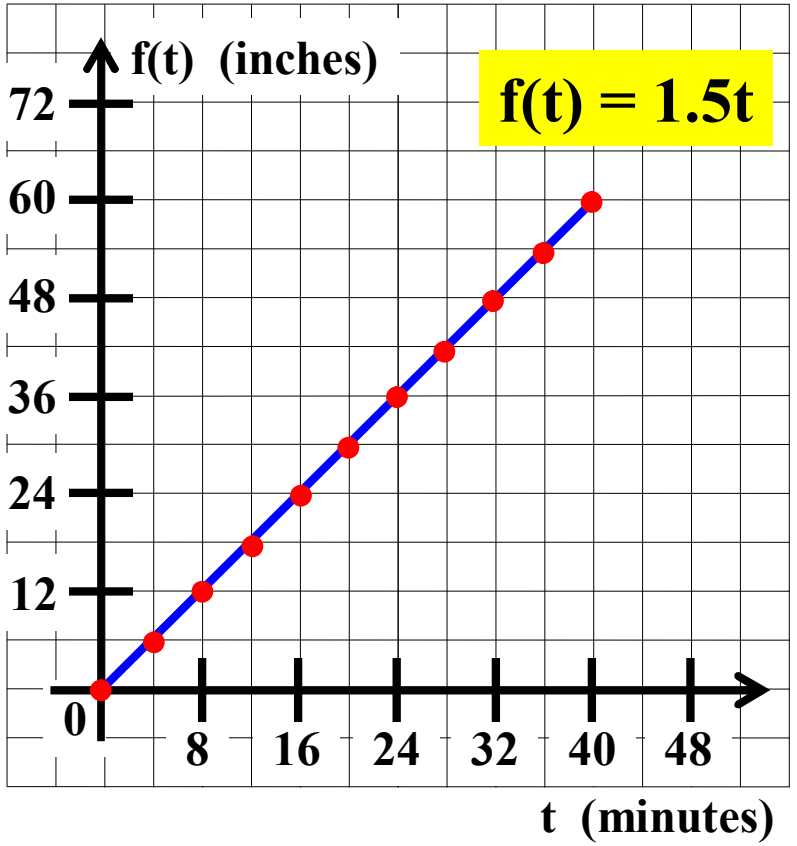

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$f(t) = 20 \rightarrow t = 13\frac{1}{3}$

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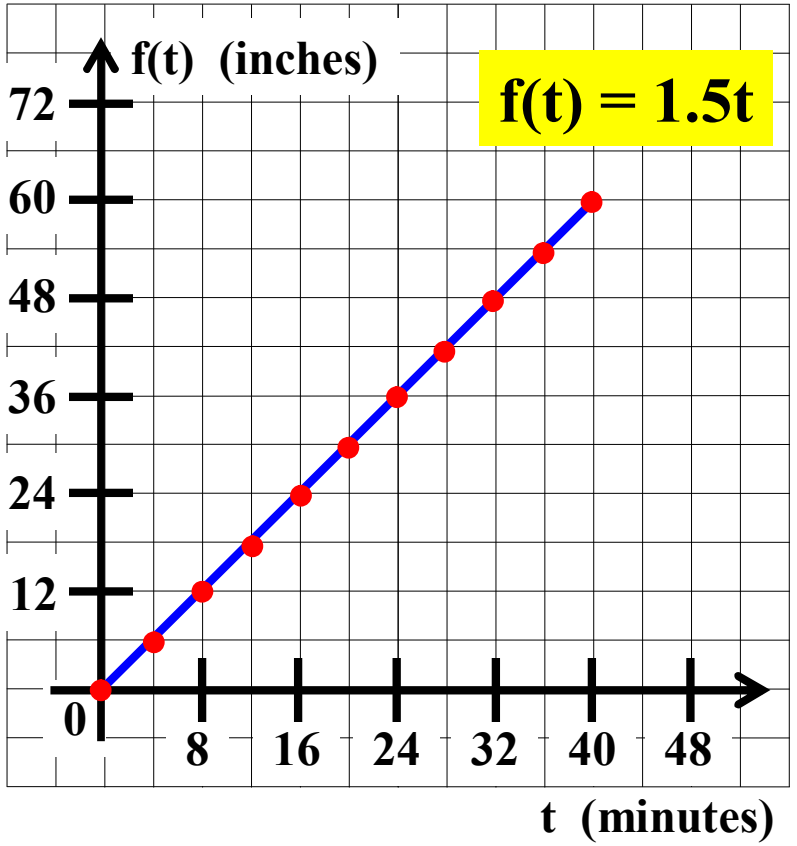

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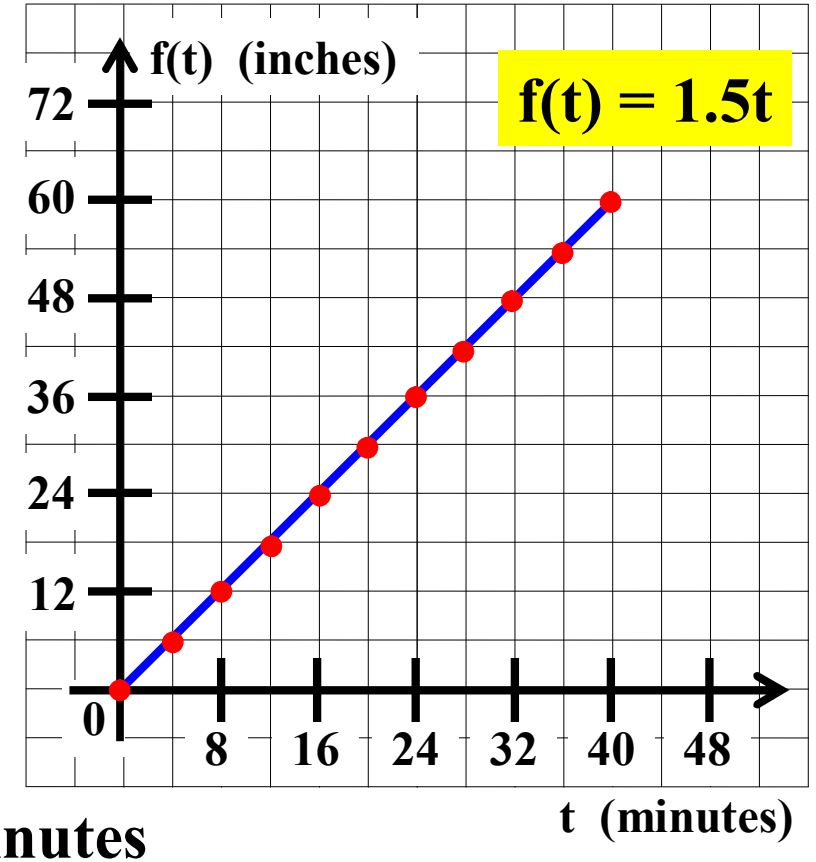

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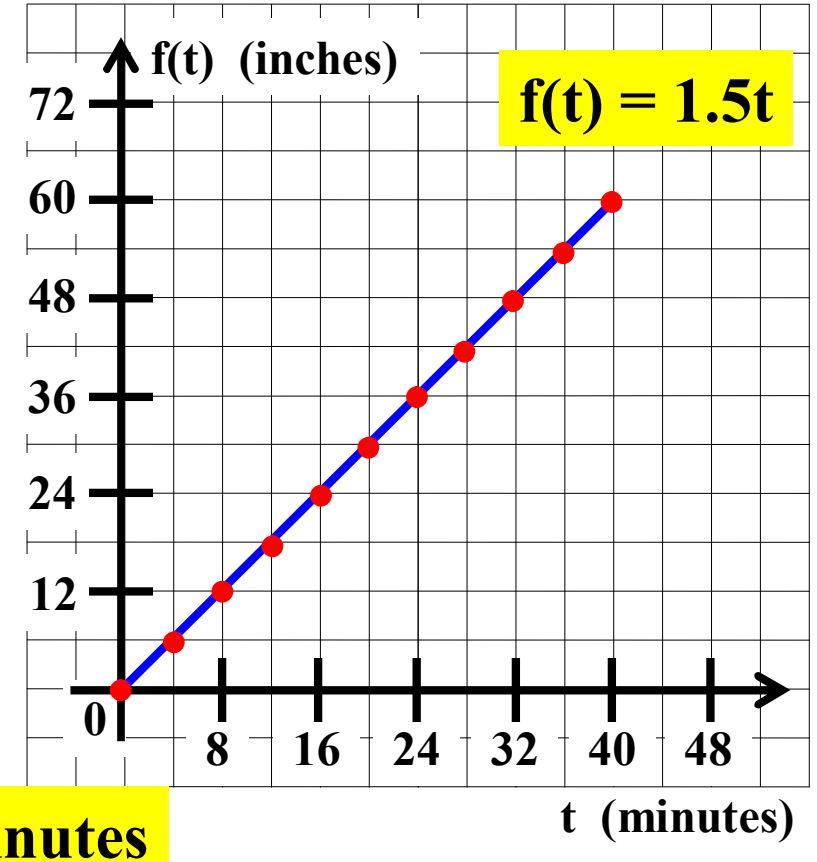

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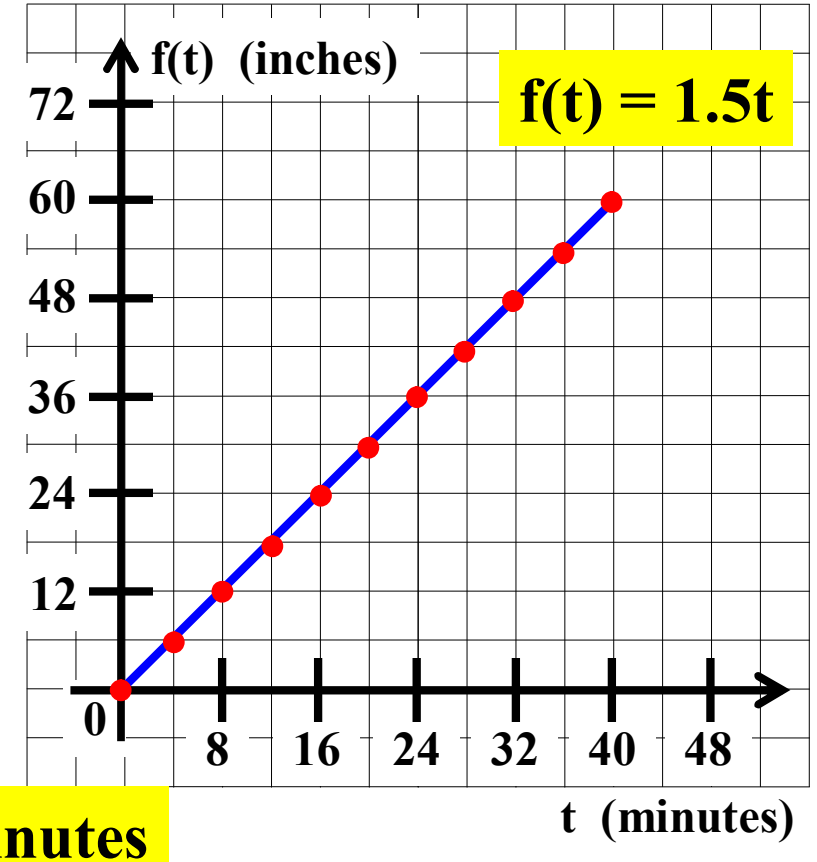

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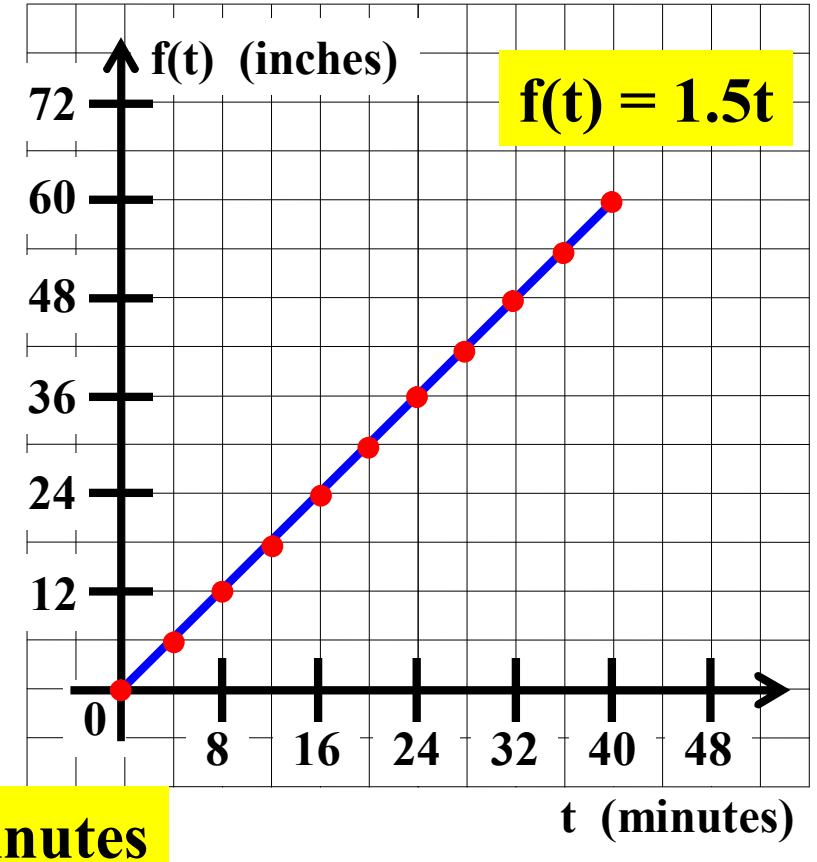

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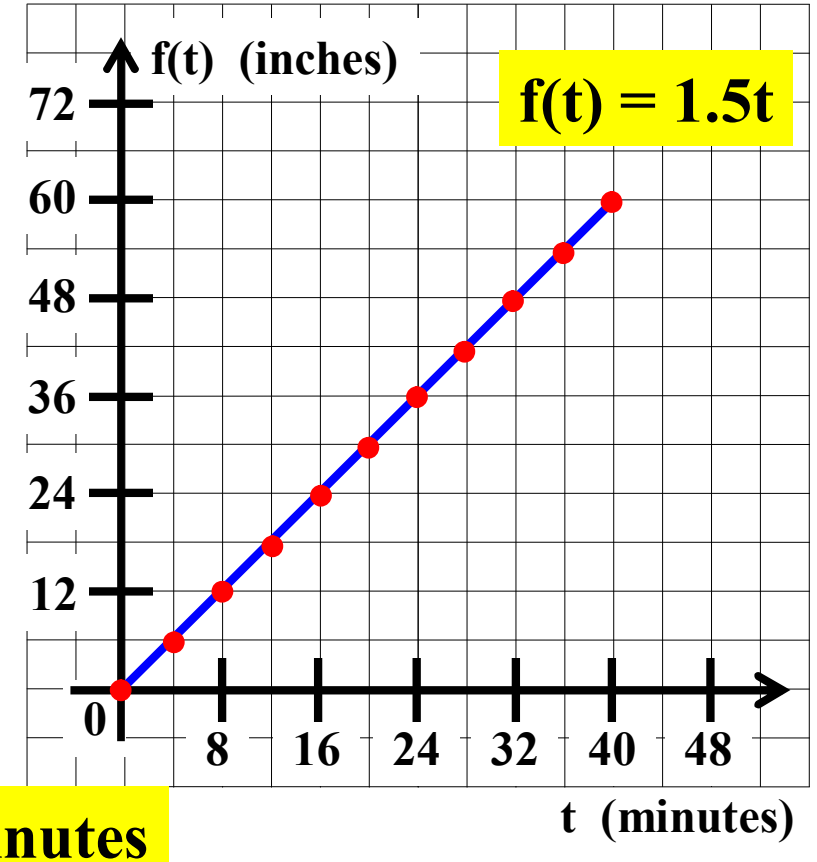

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This represents the time

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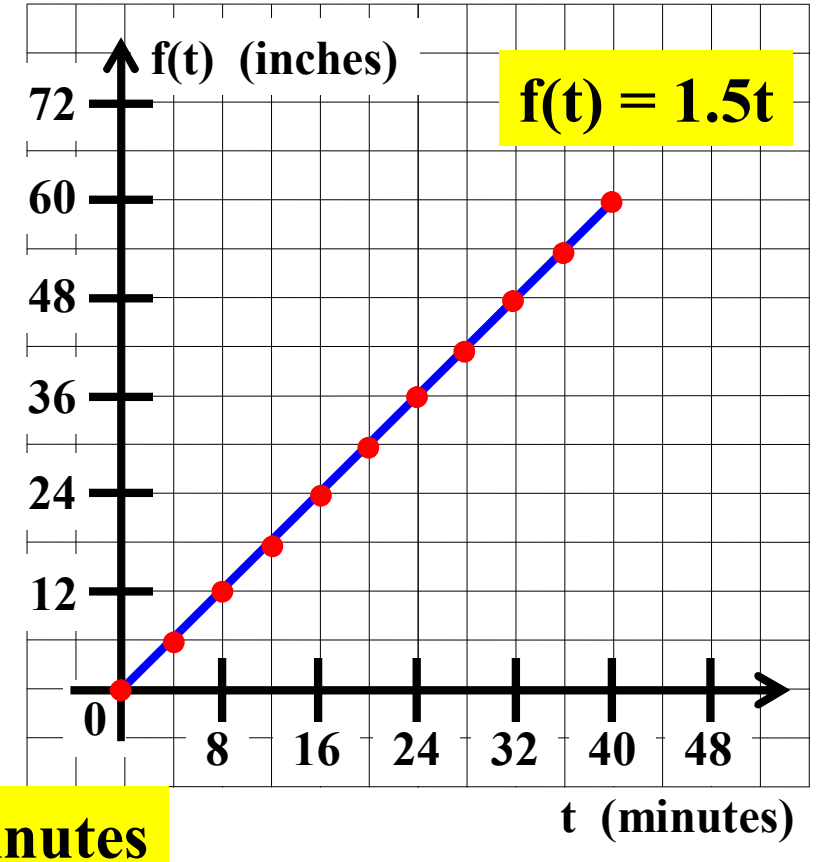

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This represents the time it took for the water to be 20 inches deep.

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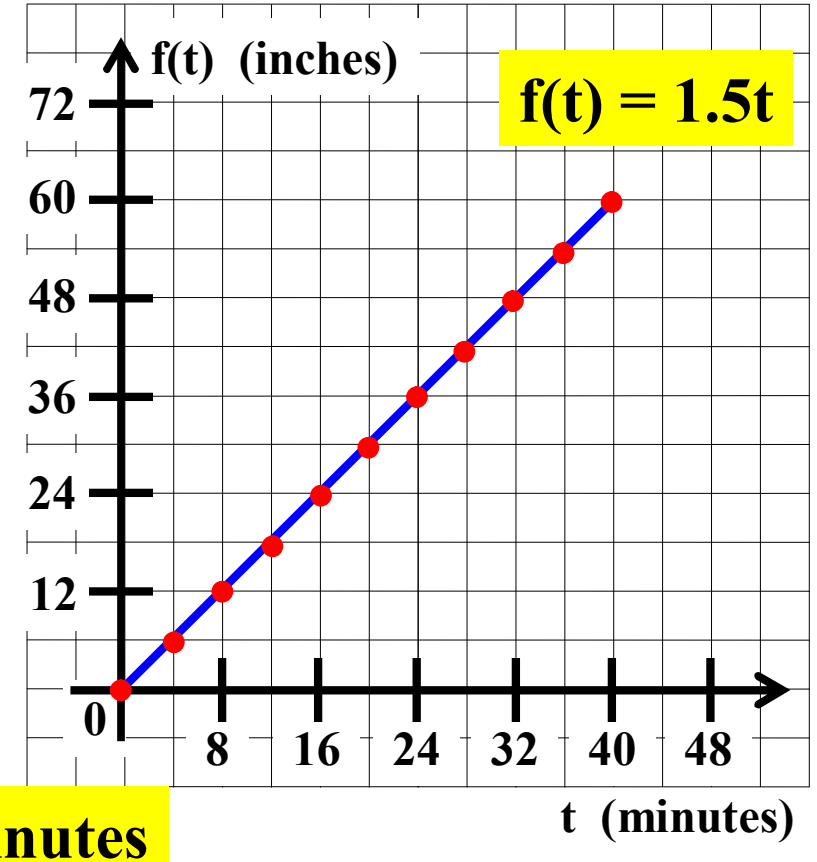

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Let F(t) represent the **depth of the water** in the tank (in **inches**).

General Algebra II CWS #5 Unit 6

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

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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? _____

$$V = LWH$$

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

$$V =$$

General Algebra II CWS #5 Unit 6

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.
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? _____

$$V = LWH$$

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

$$V = 120$$

General Algebra II CWS #5 Unit 6

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

$$V = LWH$$

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

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

General Algebra II CWS #5 Unit 6

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.
Let t represent the time that water has been draining out of the tank (in **minutes**).
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9. How long will it take to empty the tank? _____

$$V = LWH$$

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

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

Time =

General Algebra II CWS #5 Unit 6

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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? _____

$$V = LWH$$

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

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

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

General Algebra II CWS #5 Unit 6

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Let t represent the time that water has been draining out of the tank (in **minutes**).
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9. How long will it take to empty the tank? _____

$$V = LWH$$

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

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

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

General Algebra II CWS #5 Unit 6

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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? _____

$$V = LWH$$

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

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

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

General Algebra II CWS #5 Unit 6

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

$$V = LWH$$

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

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

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

$$\text{Time} =$$

General Algebra II CWS #5 Unit 6

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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? _____

$$V = LWH$$

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

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

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

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

General Algebra II CWS #5 Unit 6

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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**

$$V = LWH$$

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

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

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

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

General Algebra II CWS #5 Unit 6

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

General Algebra II CWS #5 Unit 6

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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.

General Algebra II CWS #5 Unit 6

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

t	F(t)

General Algebra II CWS #5 Unit 6

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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	
3	
6	
9	
12	
15	

General Algebra II CWS #5 Unit 6

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

t	F(t)
0	
3	
6	
9	
12	
15	

When t = 0,

General Algebra II CWS #5 Unit 6

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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3	
6	
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General Algebra II CWS #5 Unit 6

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

t	F(t)
0	
3	
6	
9	
12	
15	

When t = 0, the tank is full.

General Algebra II CWS #5 Unit 6

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.
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	
3	
6	
9	
12	
15	

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

General Algebra II CWS #5 Unit 6

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.
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	
6	
9	
12	
15	

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

General Algebra II CWS #5 Unit 6

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

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

General Algebra II CWS #5 Unit 6

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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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	

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

When t = 15,

General Algebra II CWS #5 Unit 6

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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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	

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

When t = 15,

General Algebra II CWS #5 Unit 6

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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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	

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

When t = 15, the tank is empty.

General Algebra II CWS #5 Unit 6

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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0	60
3	
6	
9	
12	
15	

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.

General Algebra II CWS #5 Unit 6

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6	
9	
12	
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The water is 60 inches deep.

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

General Algebra II CWS #5 Unit 6

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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.

General Algebra II CWS #5 Unit 6

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6	
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12	
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General Algebra II CWS #5 Unit 6

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3	
6	
9	
12	
15	0

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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	
6	
9	
12	
15	0

The water depth decreases 60 inches

General Algebra II CWS #5 Unit 6

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.
Let t represent the time that water has been draining out of the tank (in **minutes**).
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t	F(t)
0	60
3	
6	
9	
12	
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The water depth decreases 60 inches

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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	
6	
9	
12	
15	0

The water depth decreases 60 inches in 15 minutes.

General Algebra II CWS #5 Unit 6

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.
Let t represent the time that water has been draining out of the tank (in **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	
6	
9	
12	
15	0

The water depth decreases 60 inches in 15 minutes.

It decreases at 4 inches per minute.

General Algebra II CWS #5 Unit 6

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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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

The water depth decreases 60 inches in 15 minutes.

It decreases at 4 inches per minute.

It decreases 12 inches every 3 minutes.

General Algebra II CWS #5 Unit 6

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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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

The water depth decreases 60 inches in 15 minutes.

It decreases at 4 inches per minute.

It decreases 12 inches every 3 minutes.

General Algebra II CWS #5 Unit 6

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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

The water depth decreases 60 inches in 15 minutes.

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It decreases 12 inches every 3 minutes.

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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	
9	
12	
15	0

The water depth decreases 60 inches in 15 minutes.

It decreases at 4 inches per minute.

It decreases 12 inches every 3 minutes.

General Algebra II CWS #5 Unit 6

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.
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	
9	
12	
15	0

The water depth decreases 60 inches in 15 minutes.

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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	36
9	
12	
15	0

The water depth decreases 60 inches in 15 minutes.

It decreases at 4 inches per minute.

It decreases 12 inches every 3 minutes.

General Algebra II CWS #5 Unit 6

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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3	48
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9	
12	
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The water depth decreases 60 inches in 15 minutes.

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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	48
6	36
9	24
12	
15	0

The water depth decreases 60 inches in 15 minutes.

It decreases at 4 inches per minute.

It decreases 12 inches every 3 minutes.

General Algebra II CWS #5 Unit 6

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

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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3	48
6	36
9	24
12	12
15	0

The water depth decreases 60 inches in 15 minutes.

It decreases at 4 inches per minute.

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General Algebra II CWS #5 Unit 6

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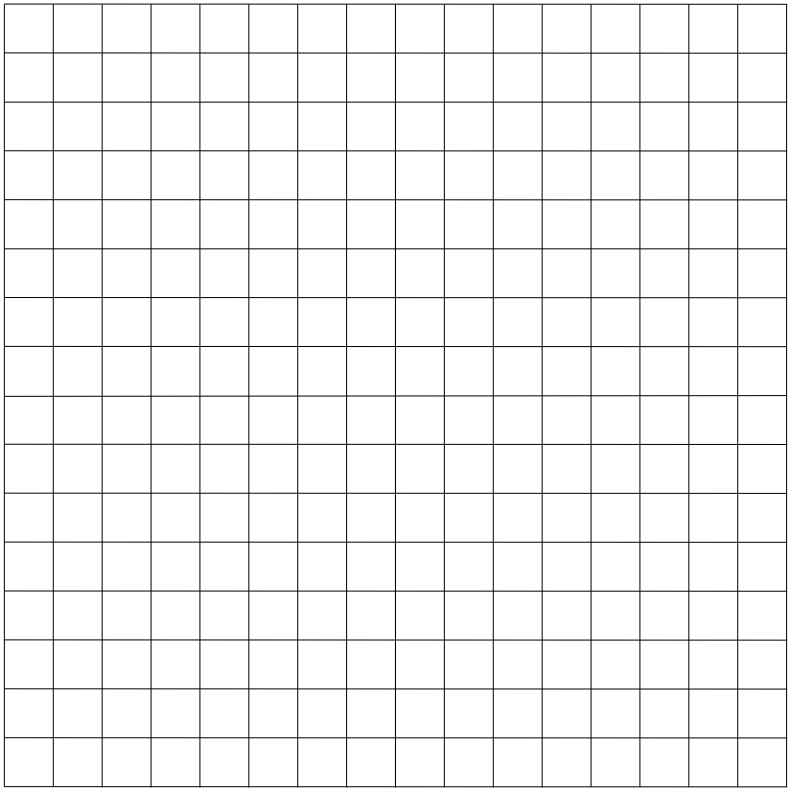

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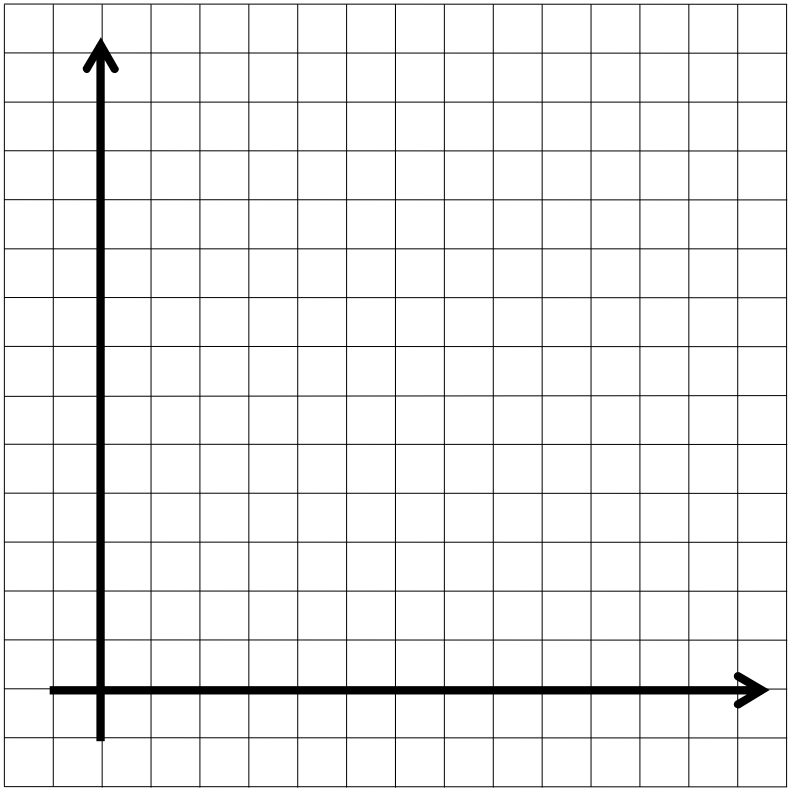

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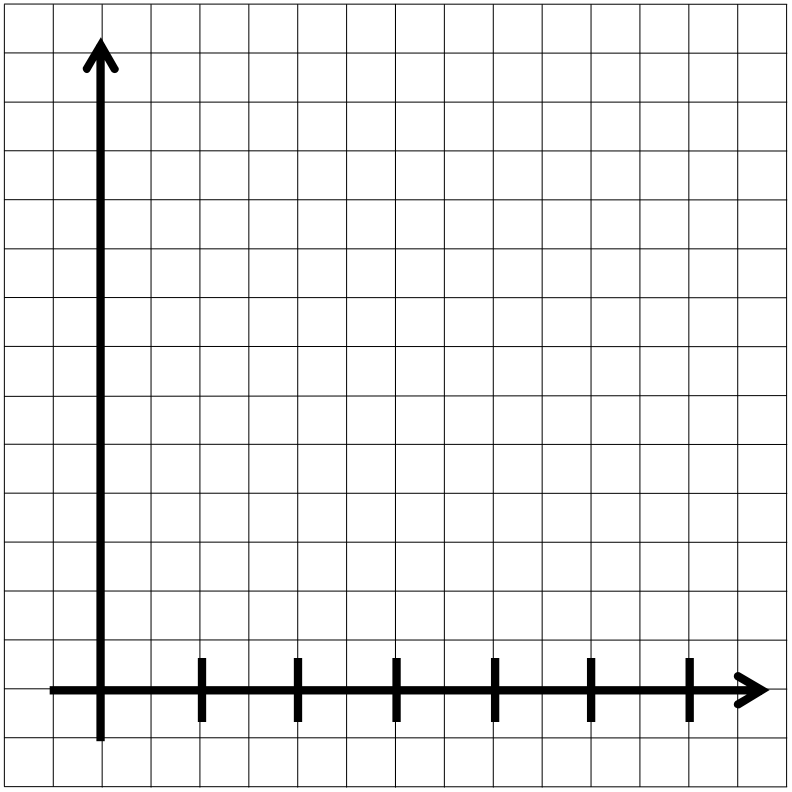

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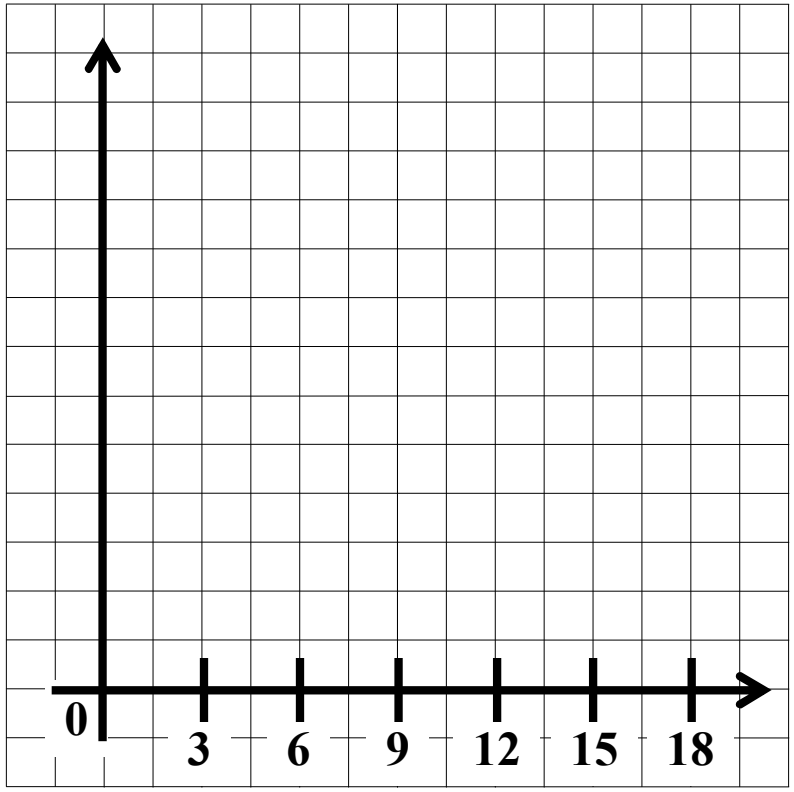

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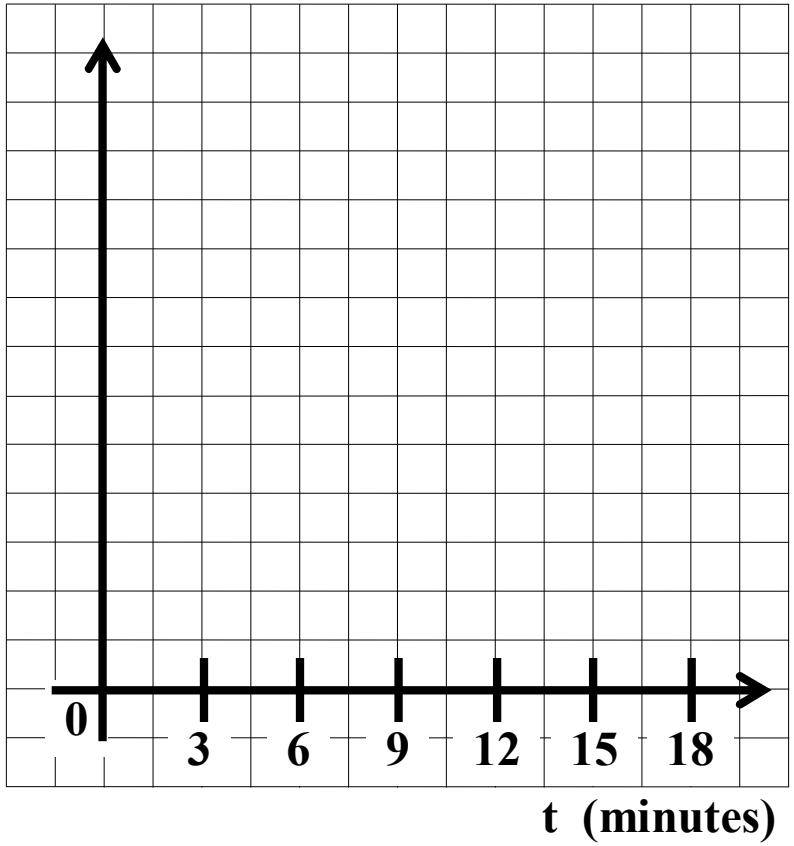

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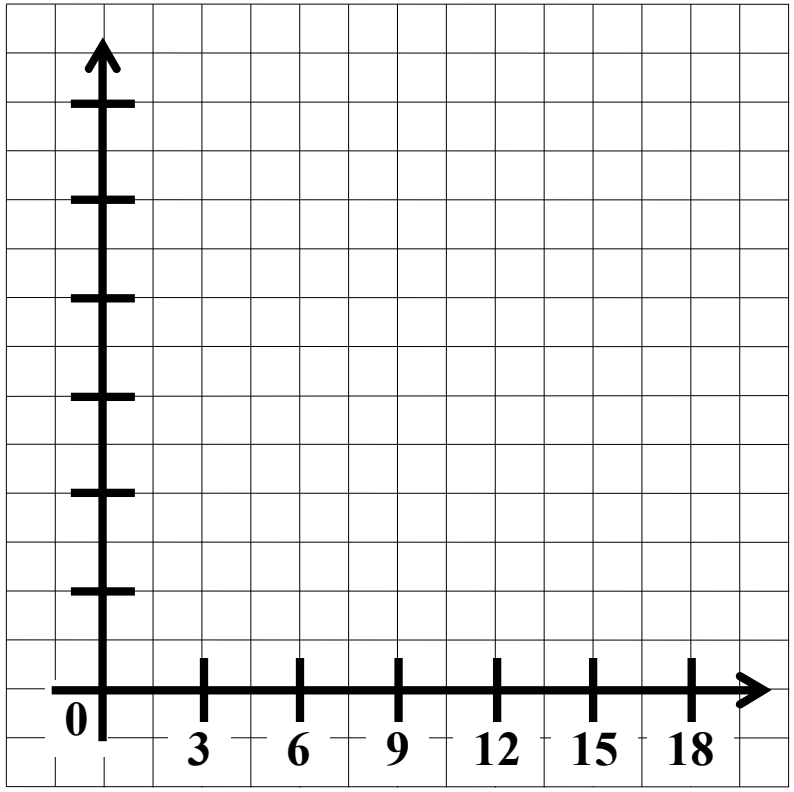

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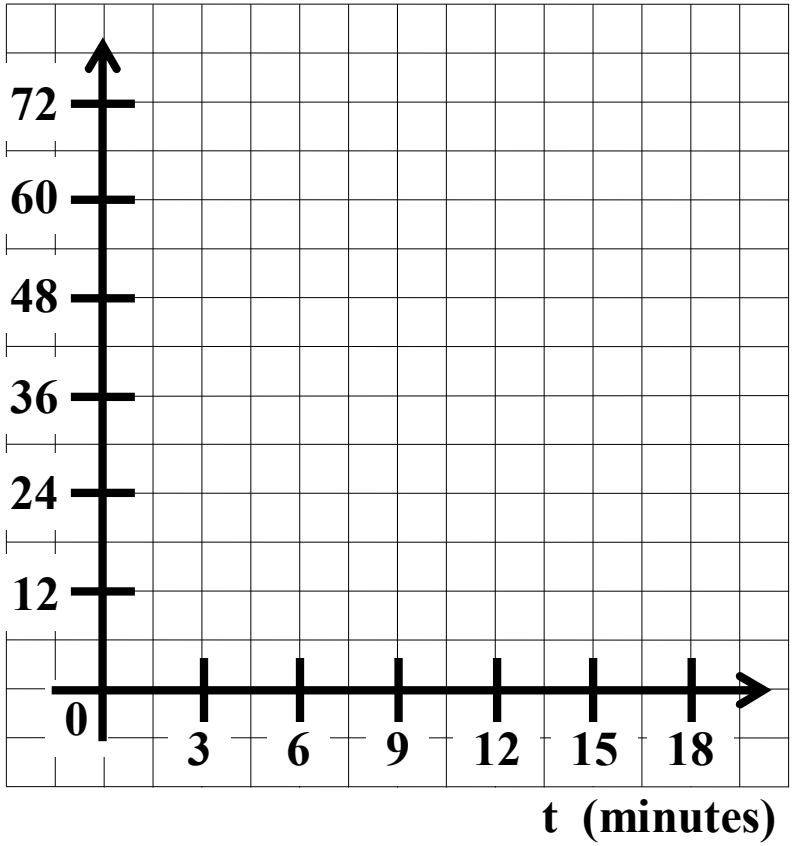

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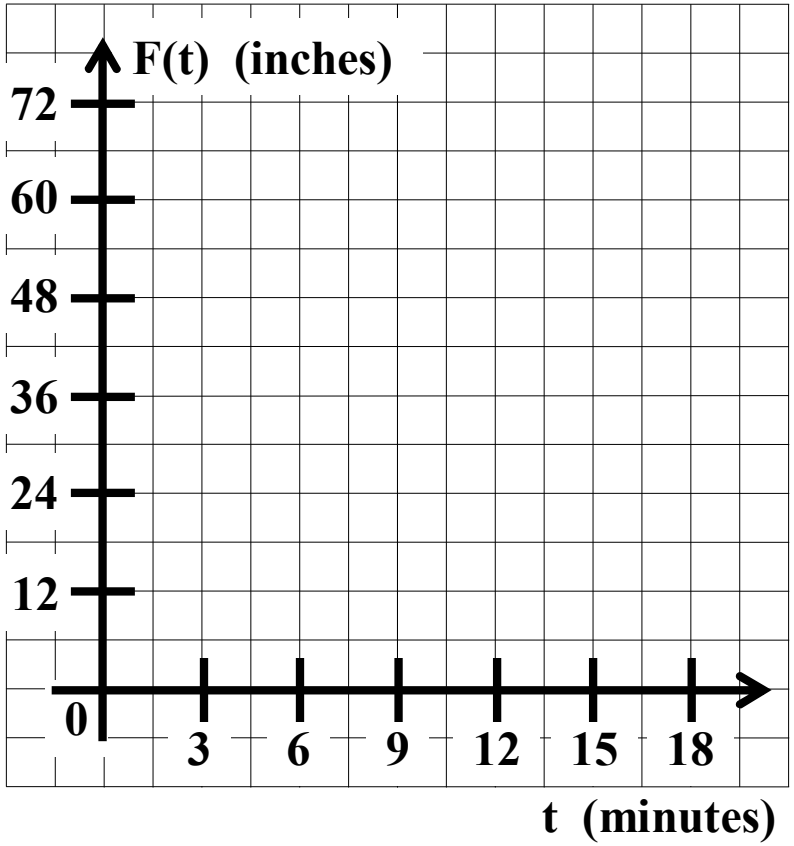

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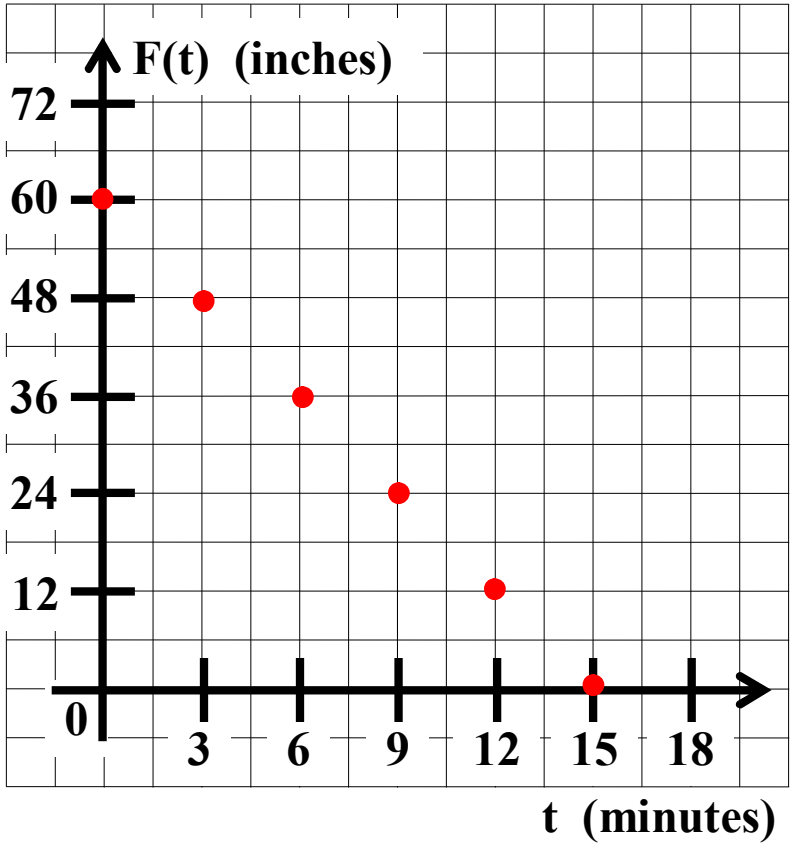

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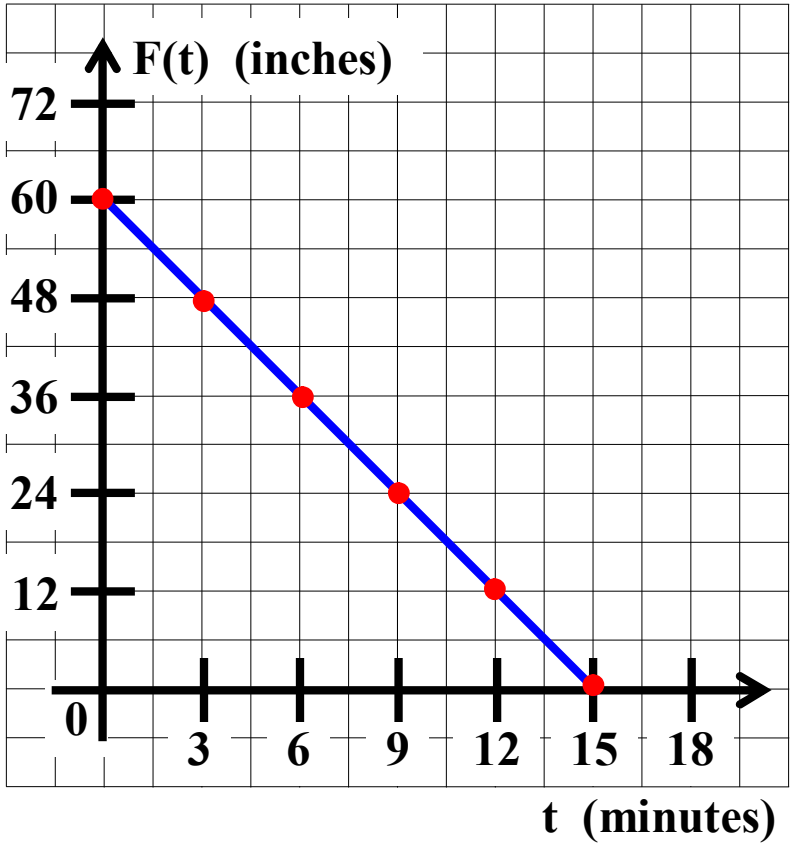

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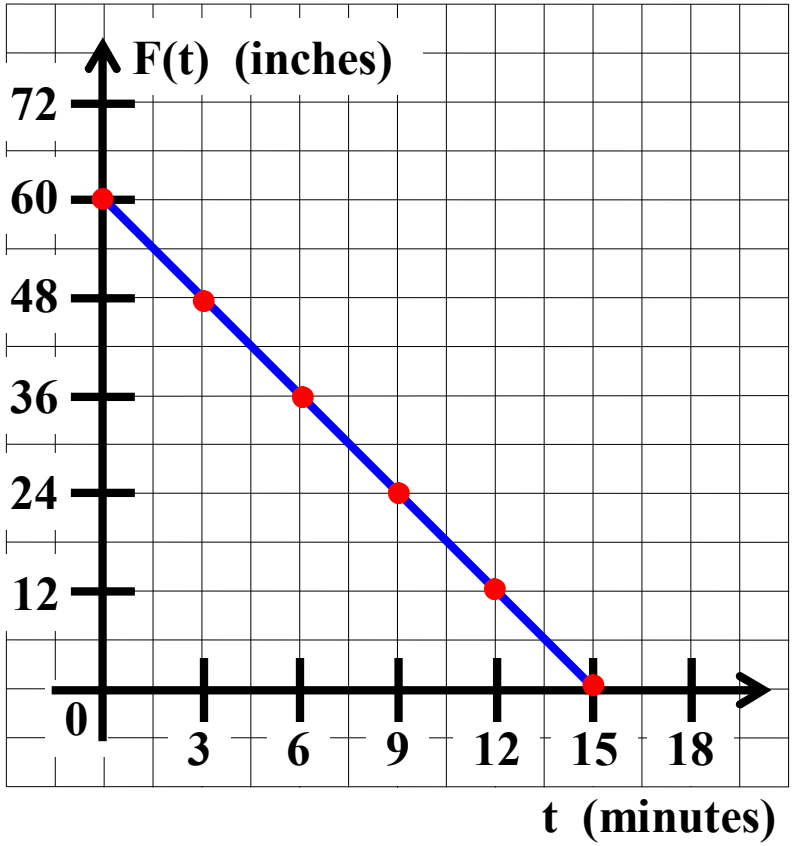

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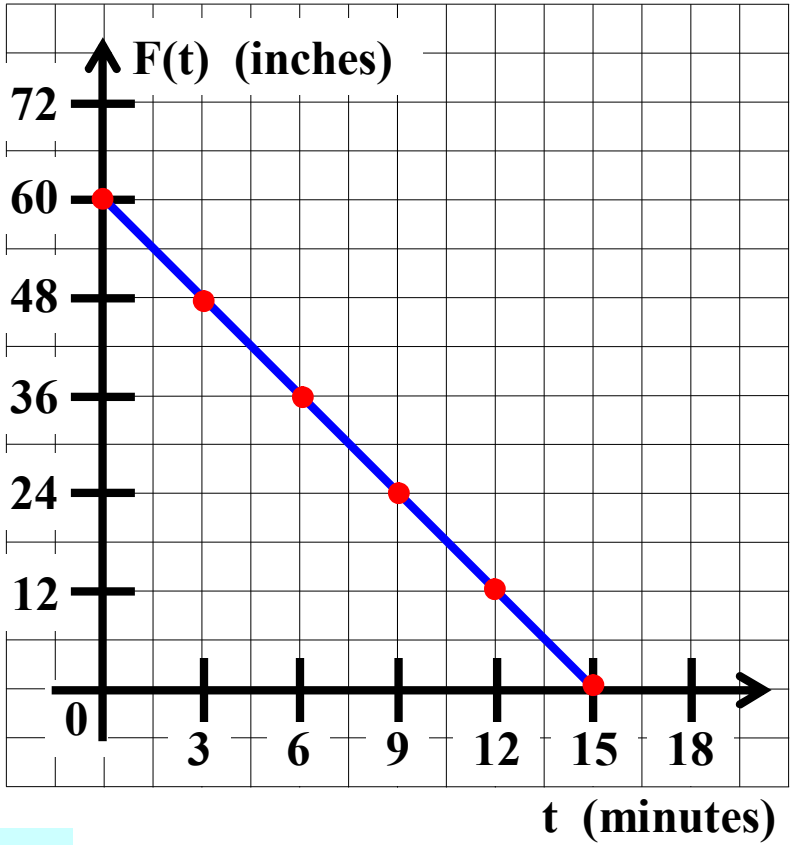

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slope =

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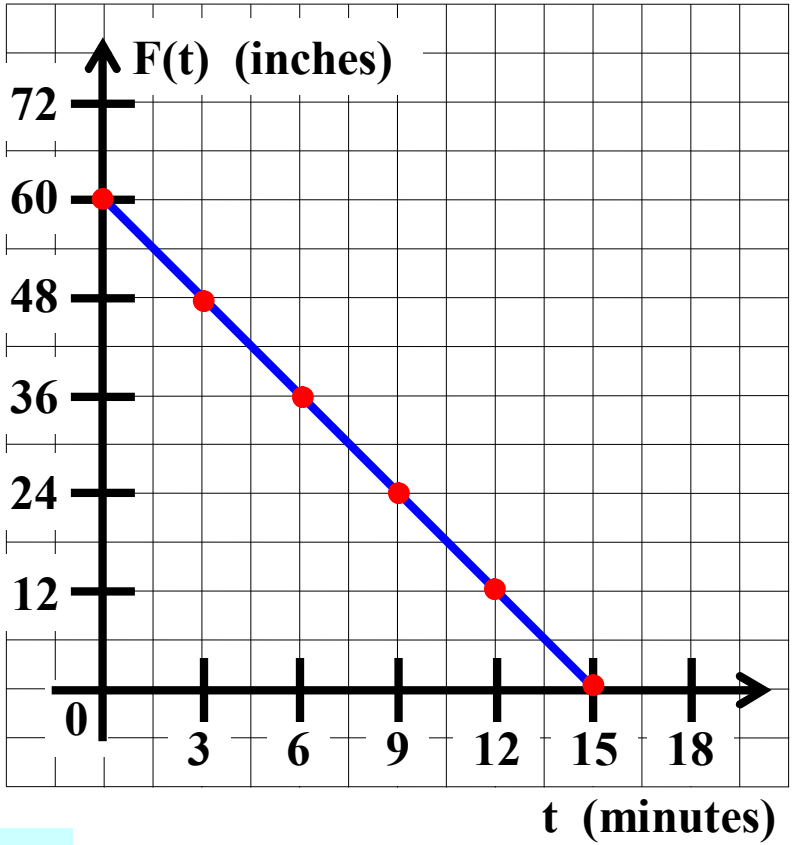

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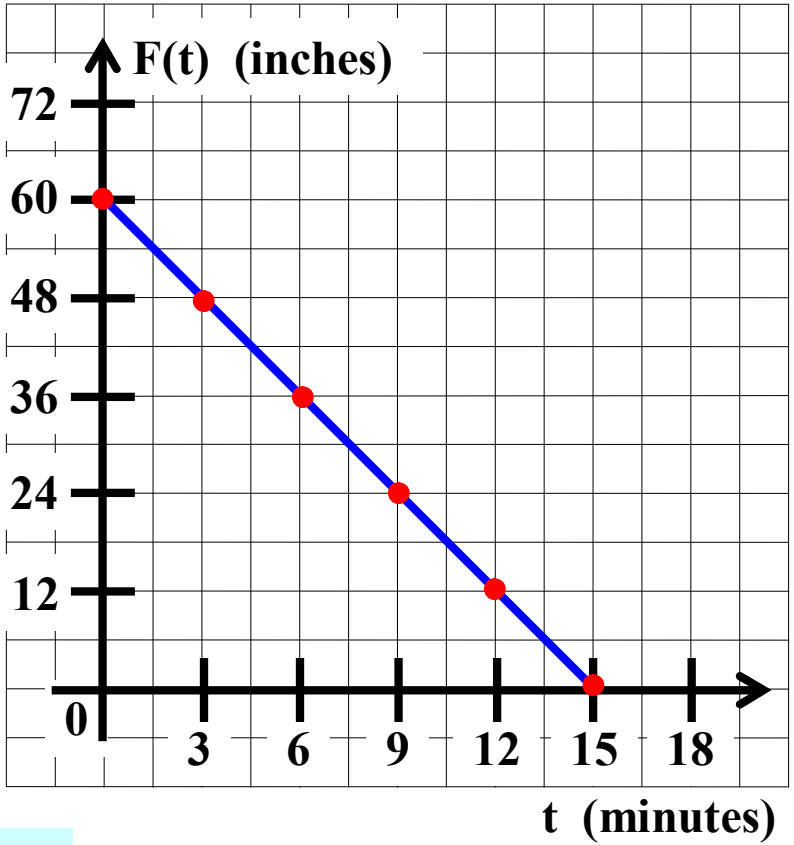

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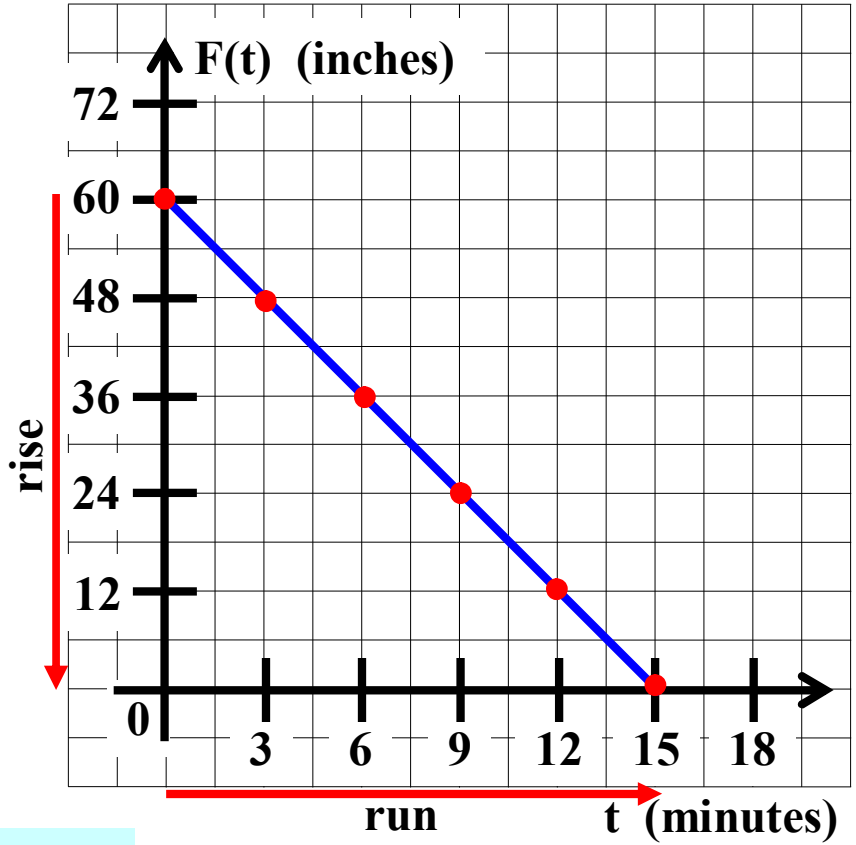

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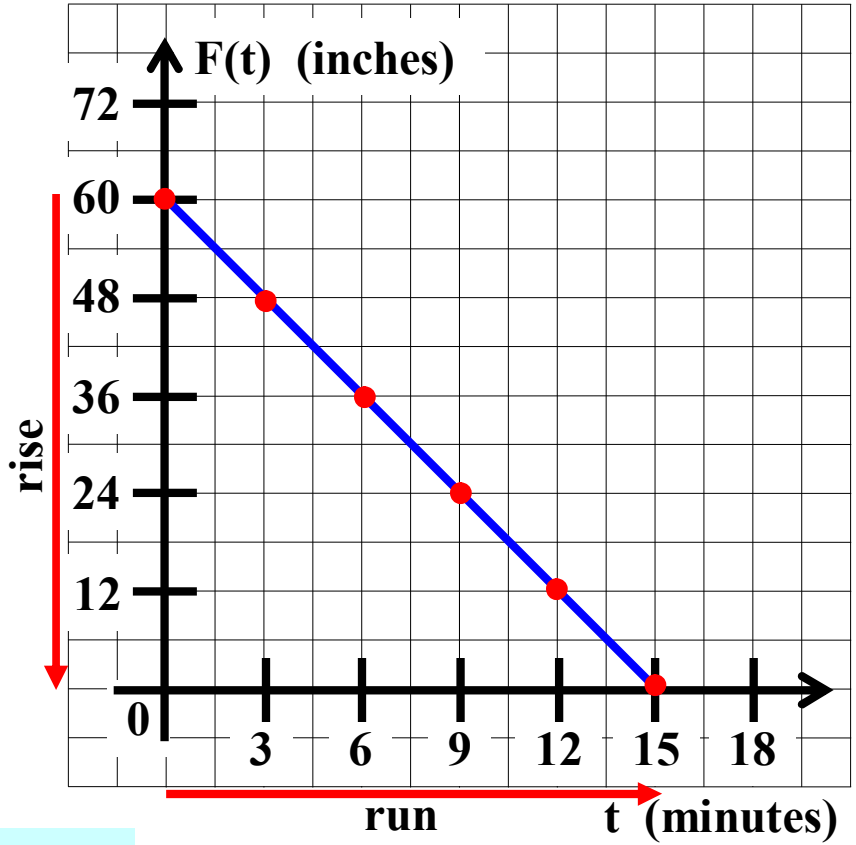

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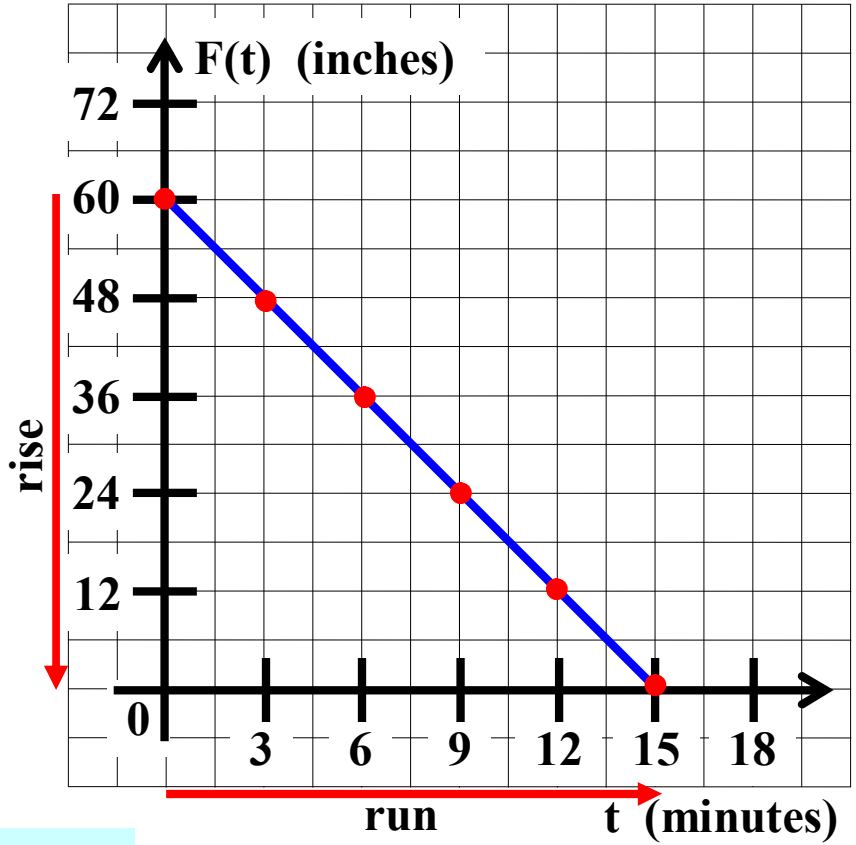

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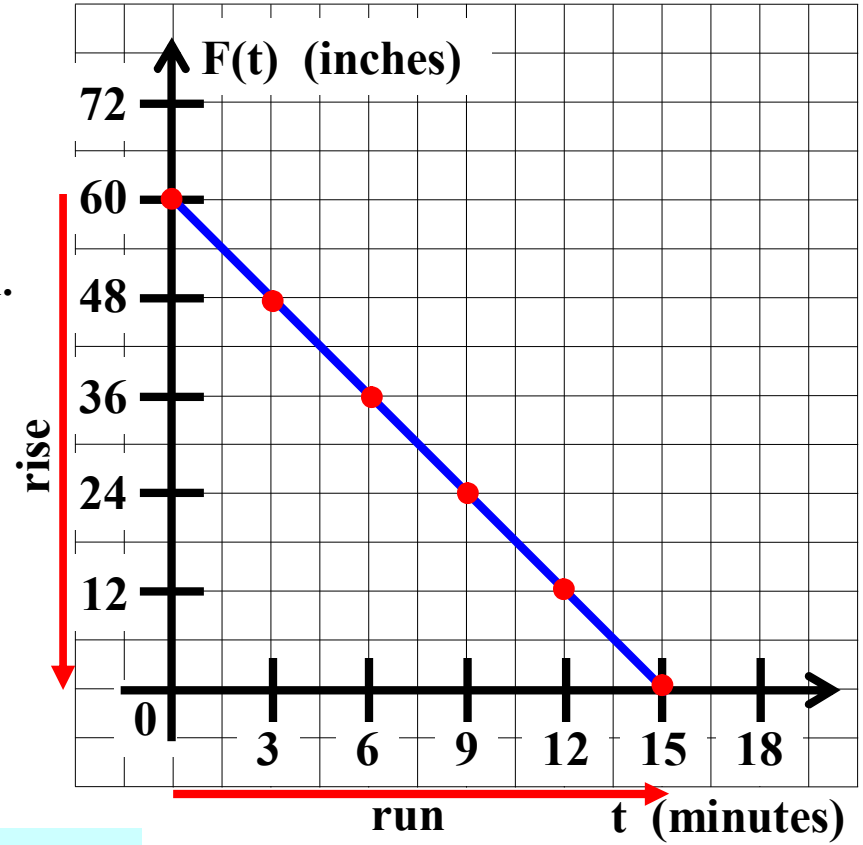

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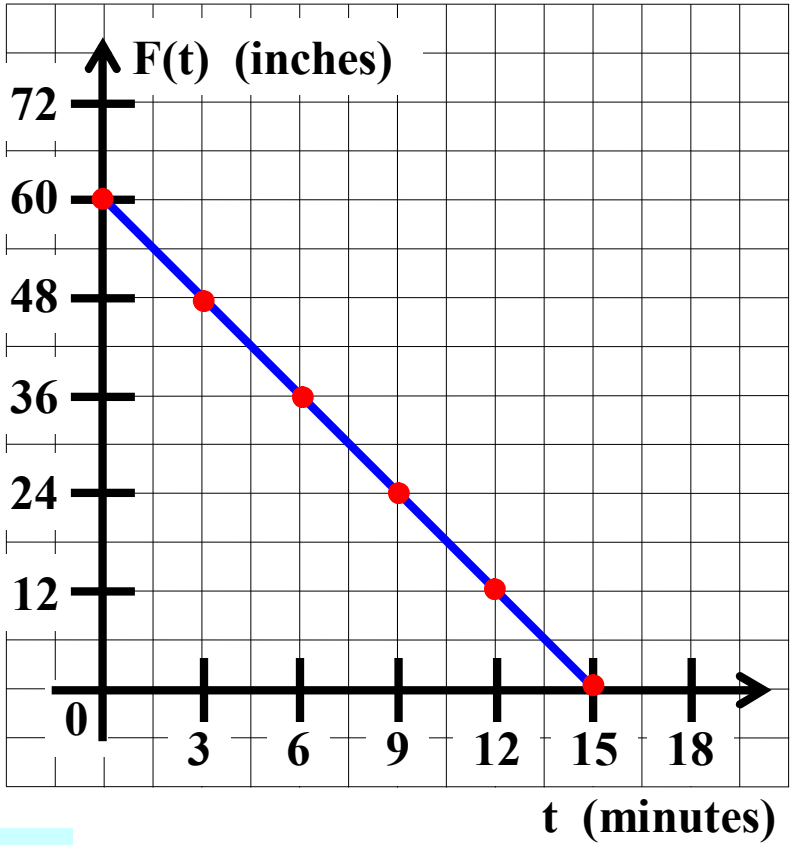

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'y-intercept' =

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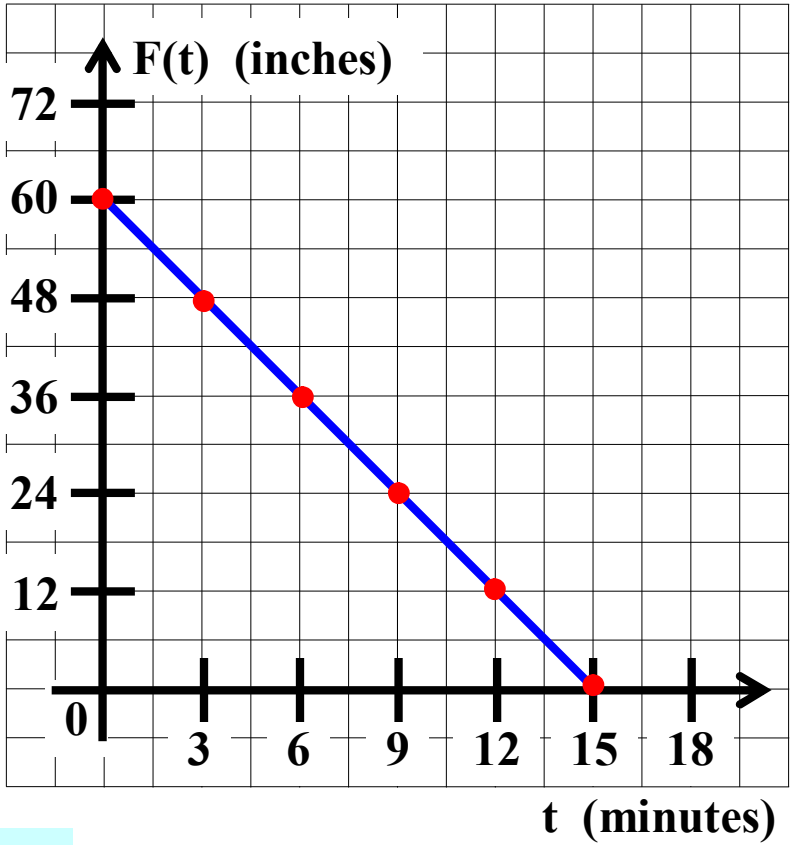

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'y-intercept' = 60

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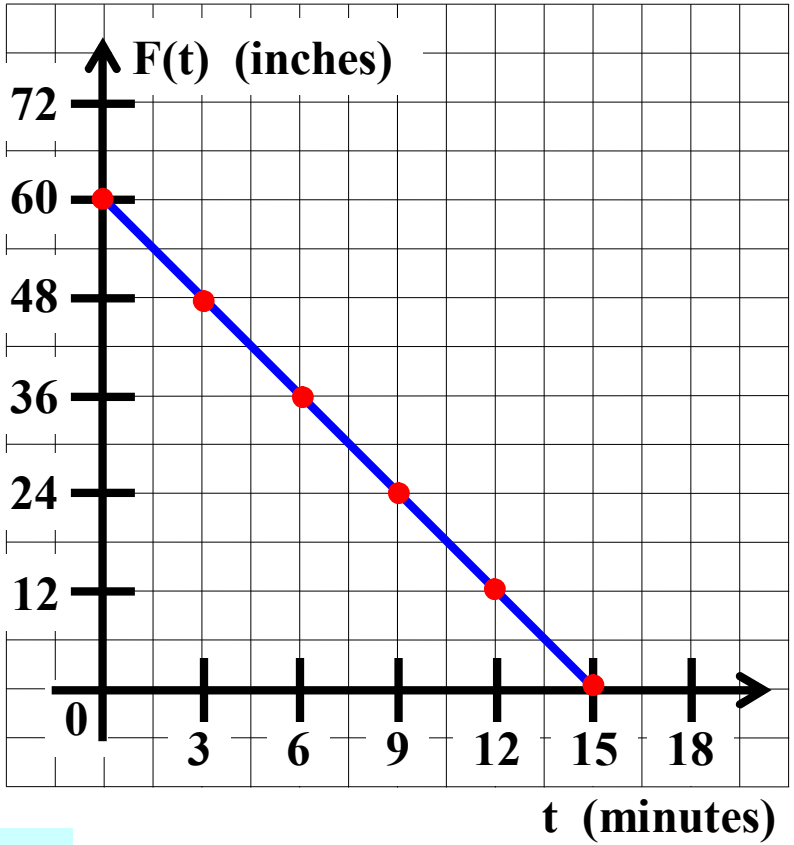

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'y-intercept' = 60

$y = mx + b$

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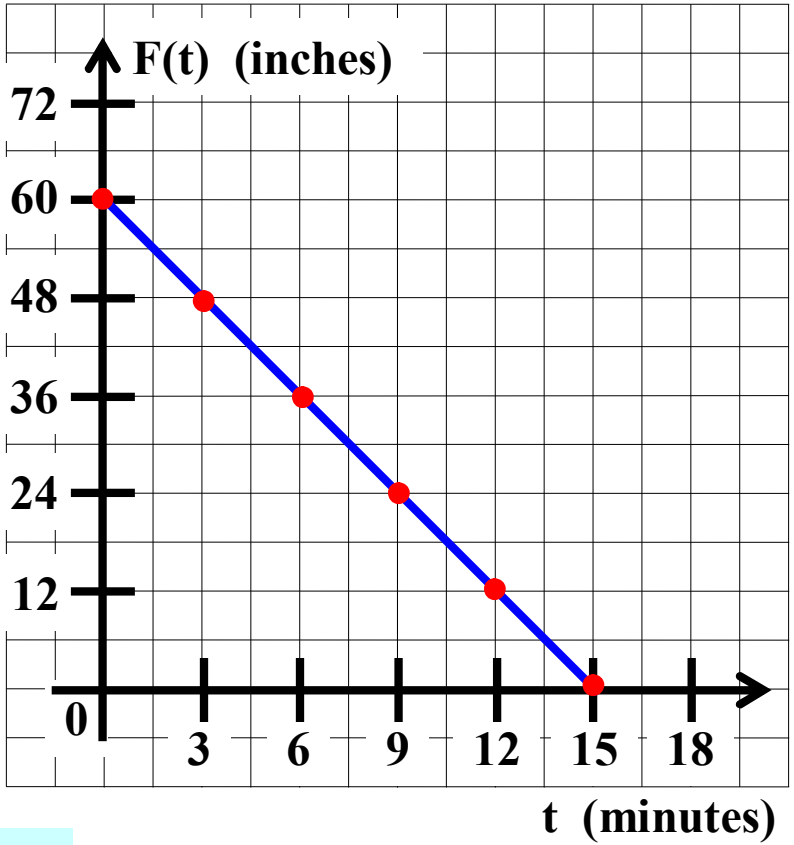

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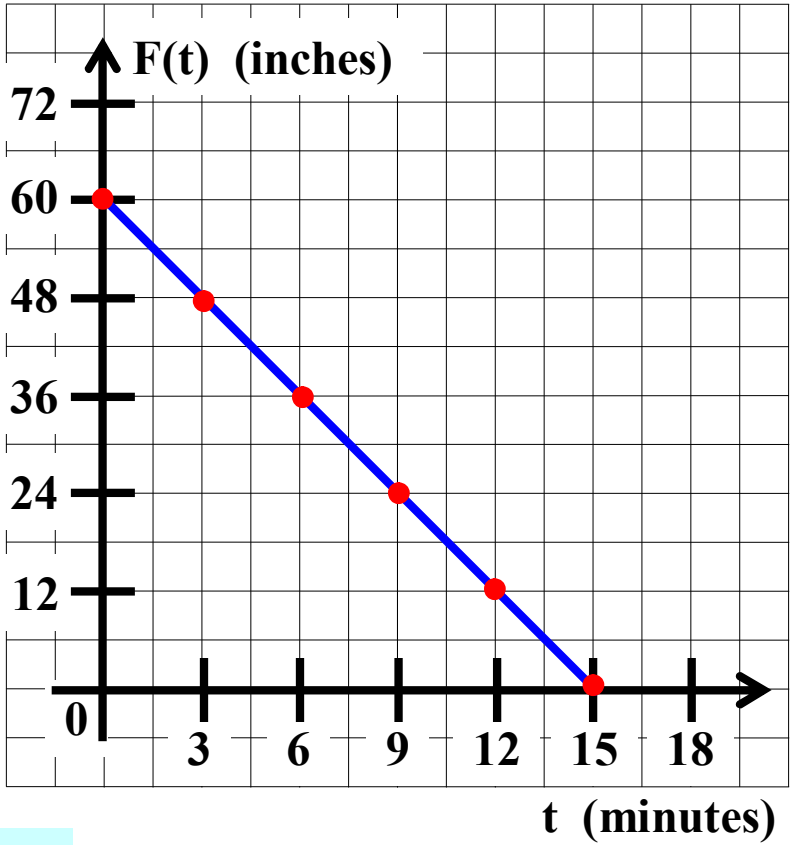

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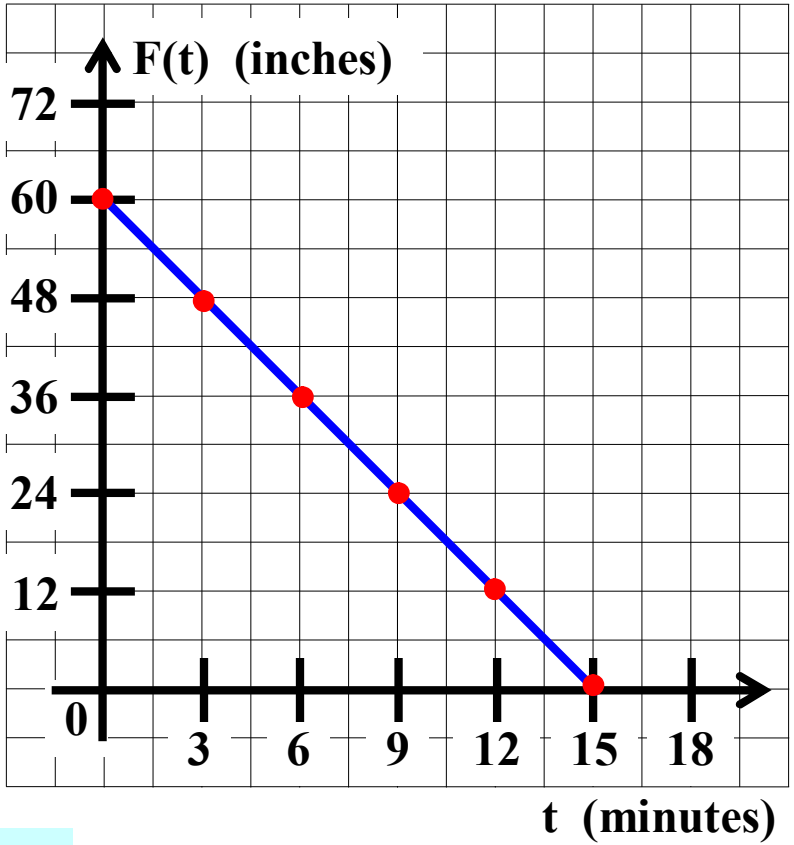

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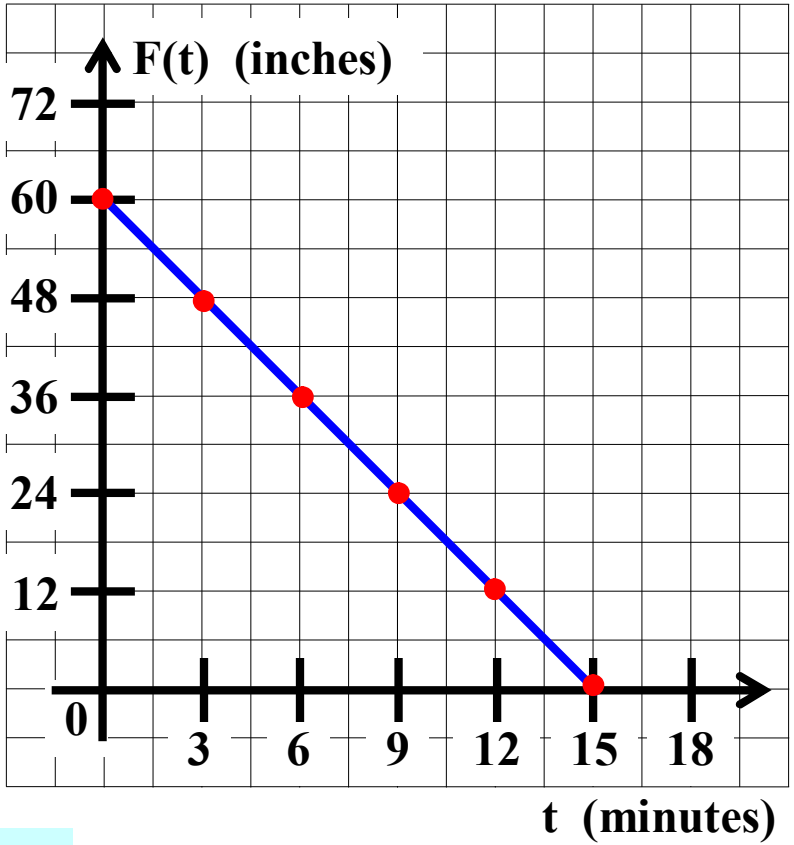

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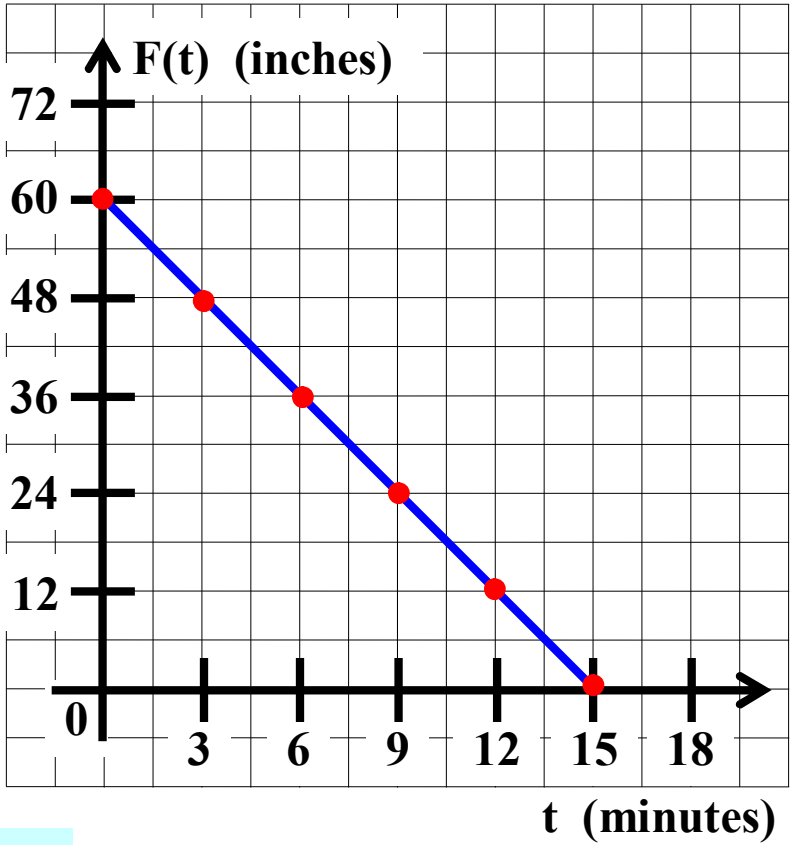

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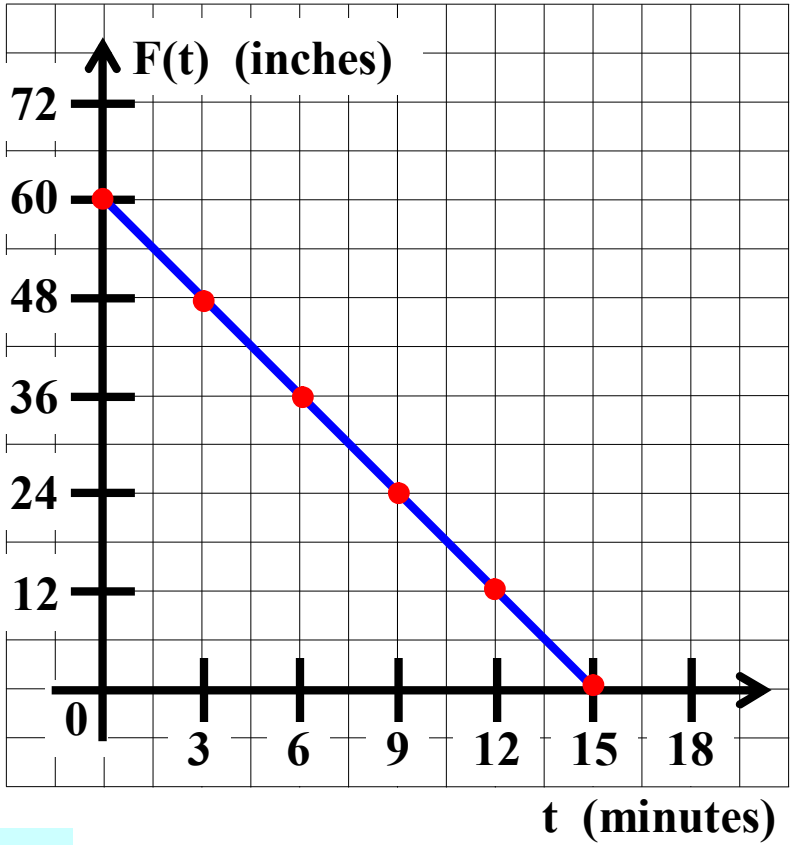

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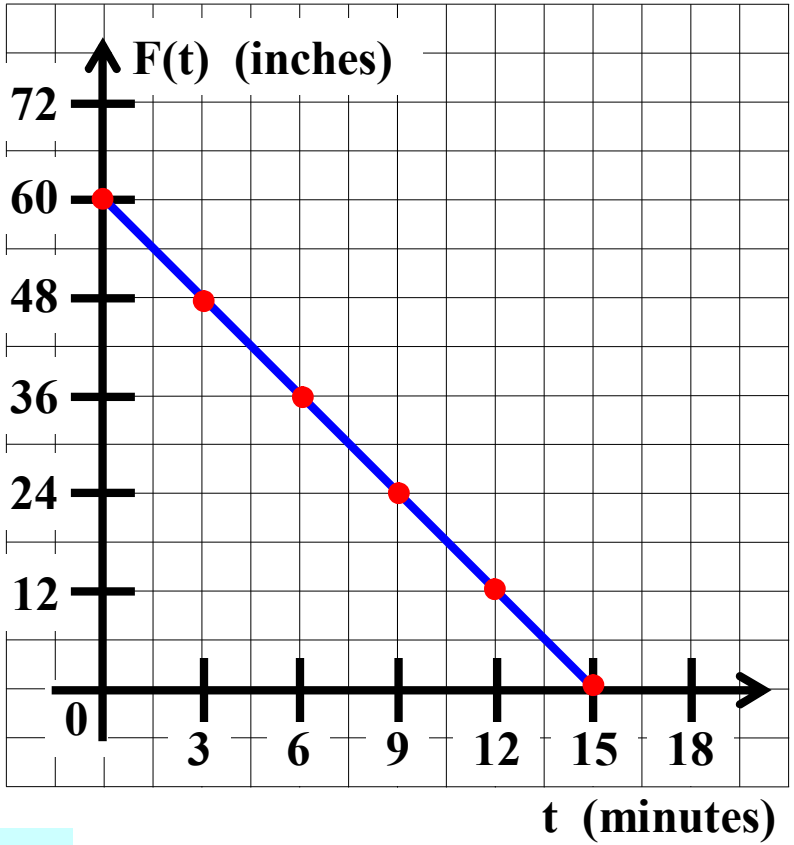

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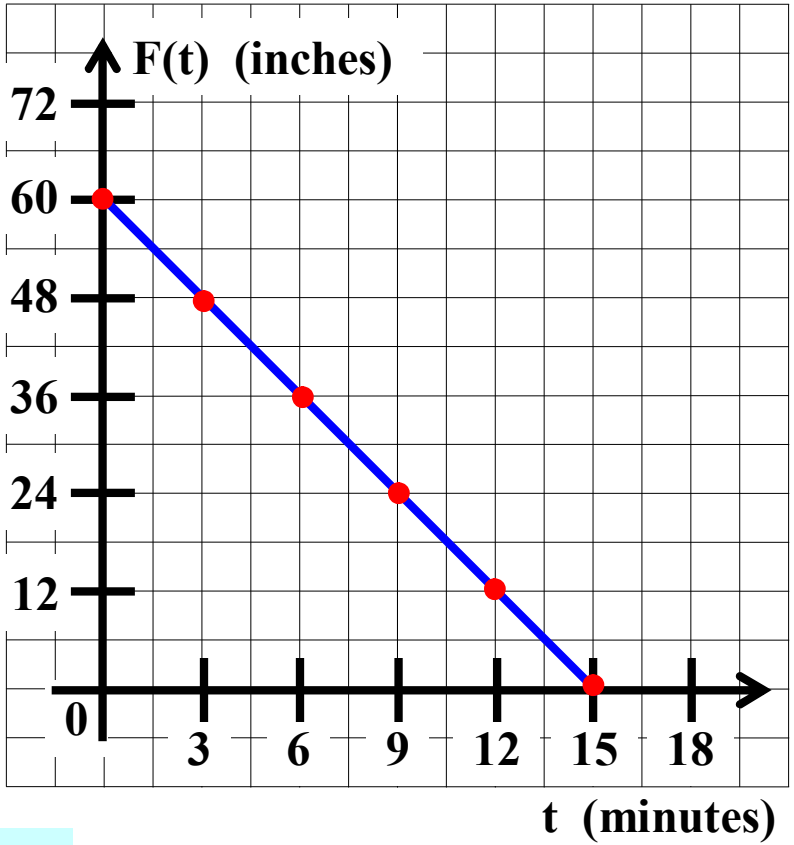

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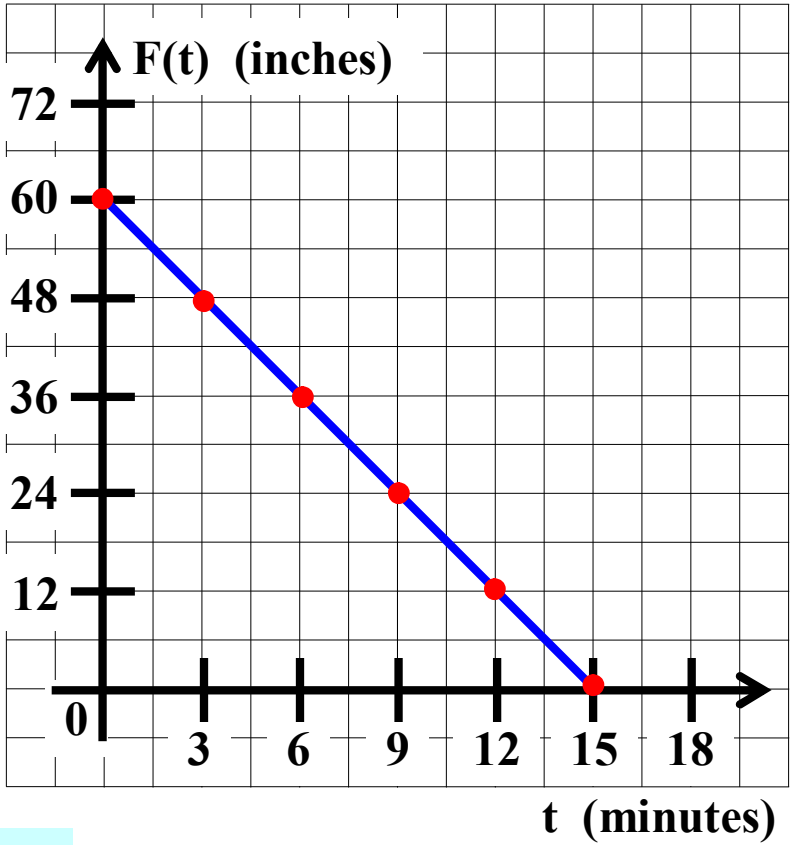

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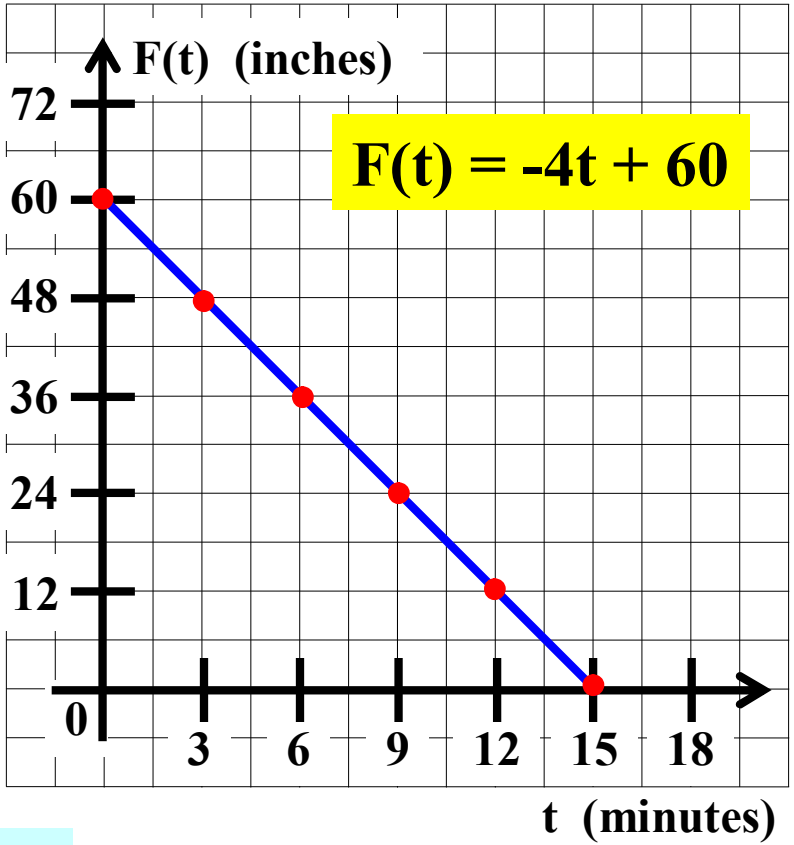

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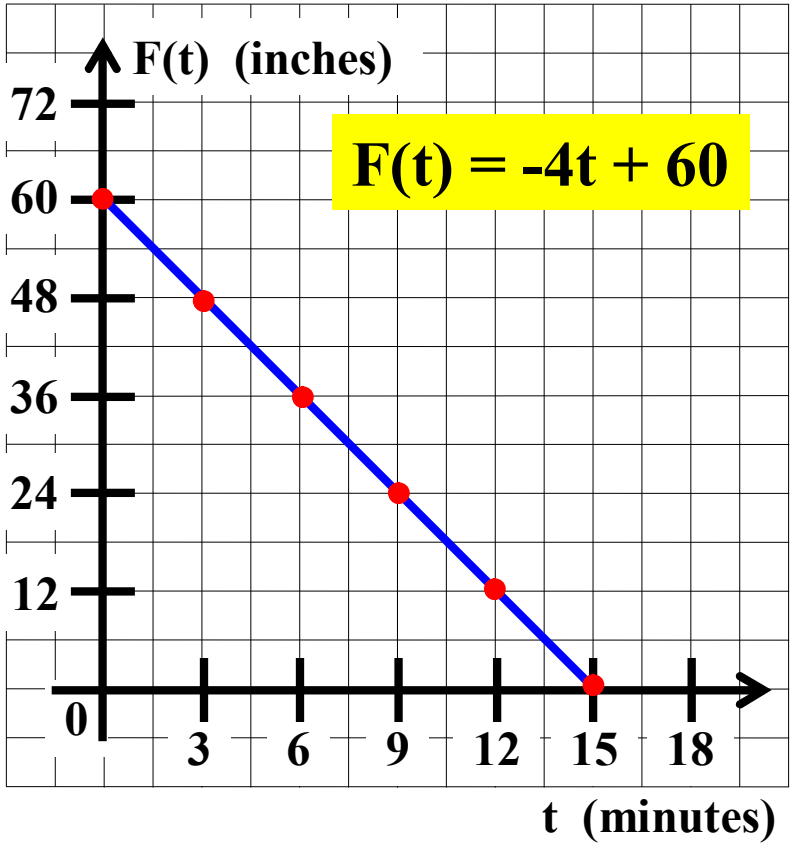

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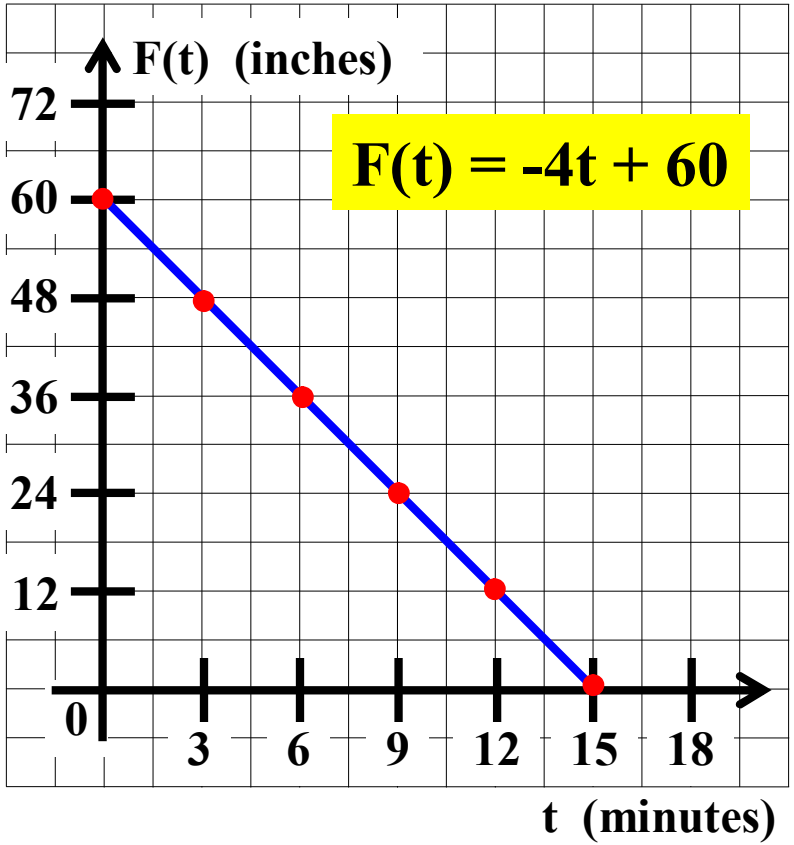

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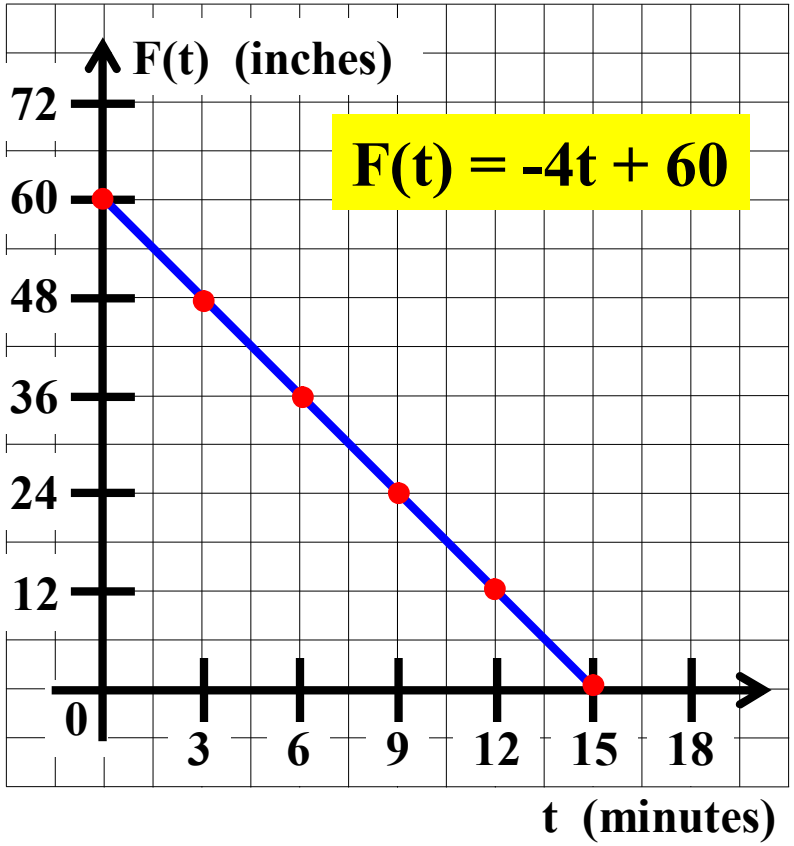

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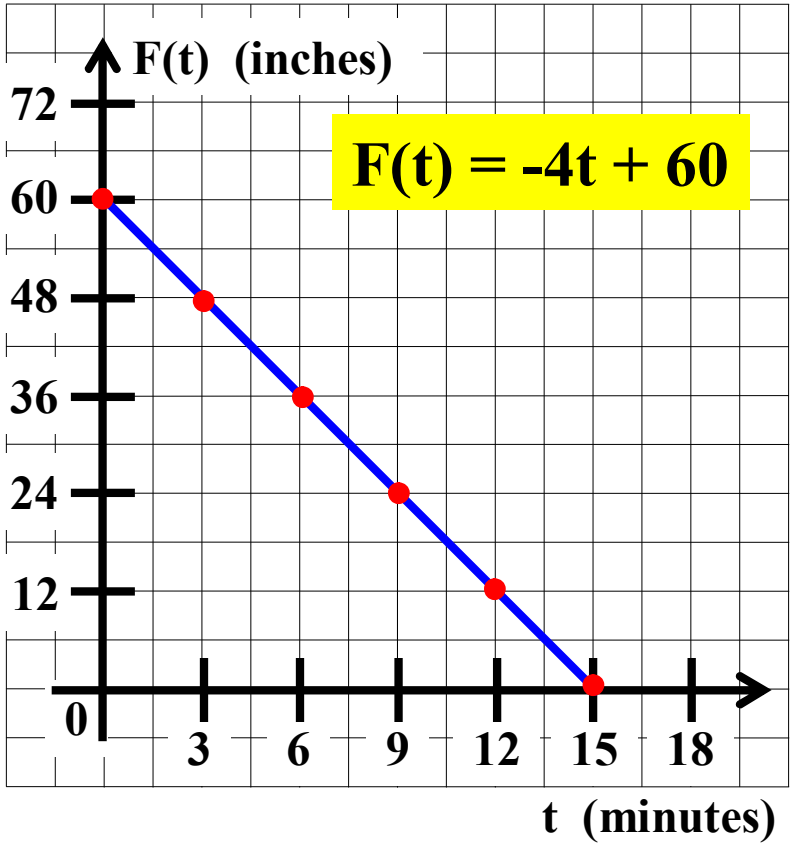

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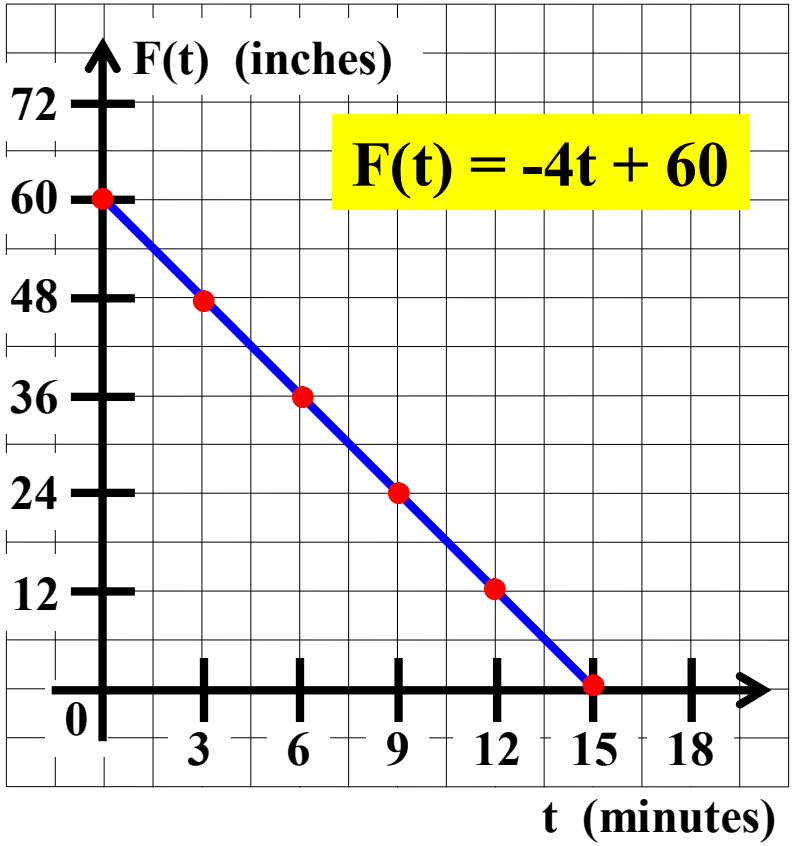

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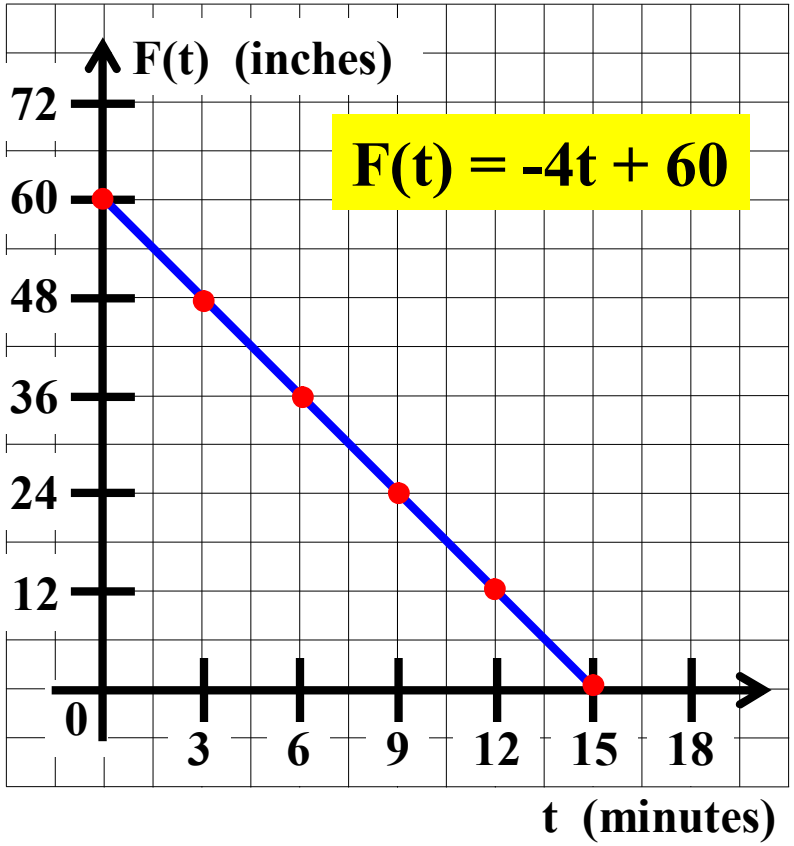

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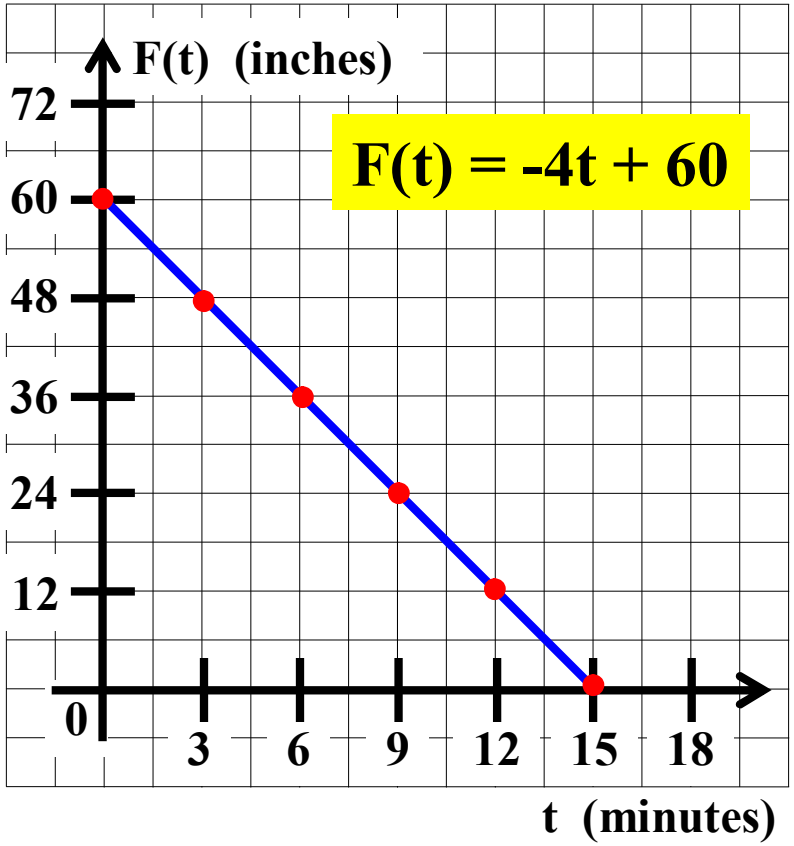

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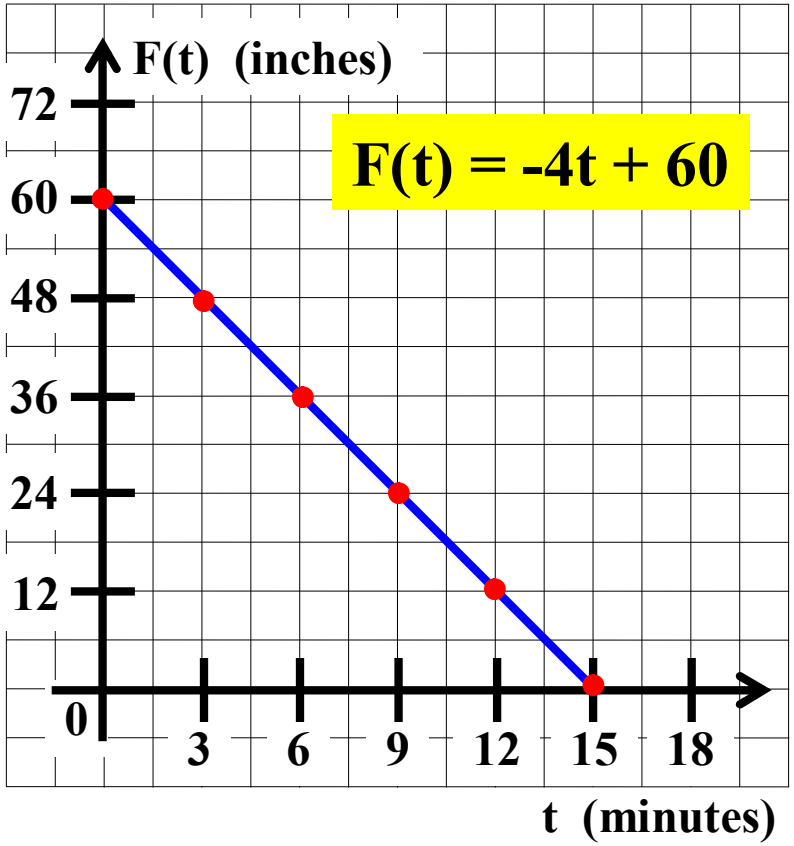

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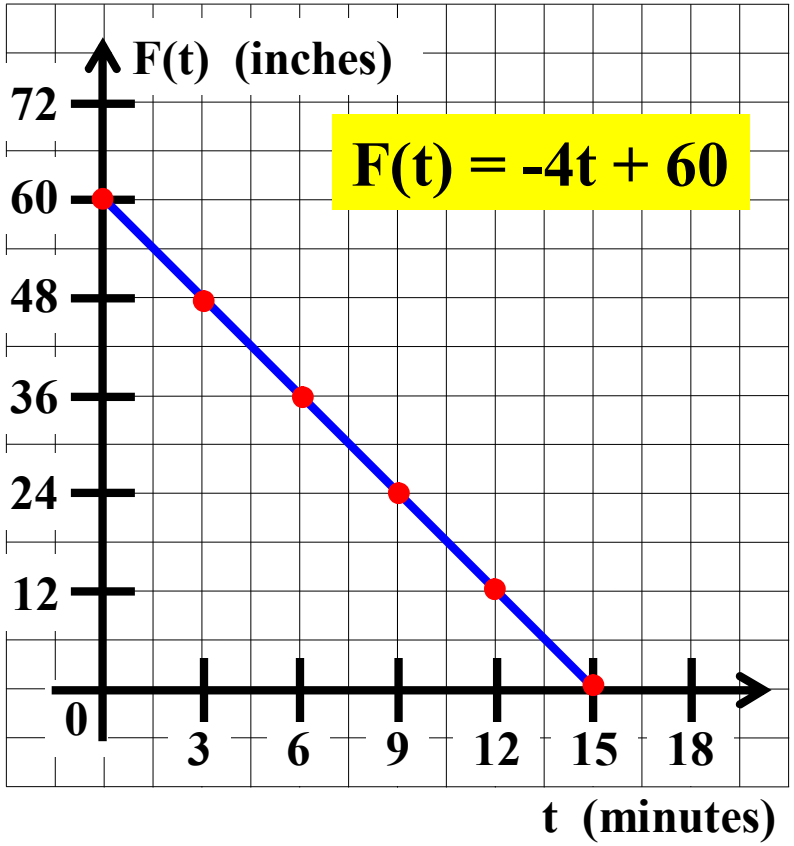

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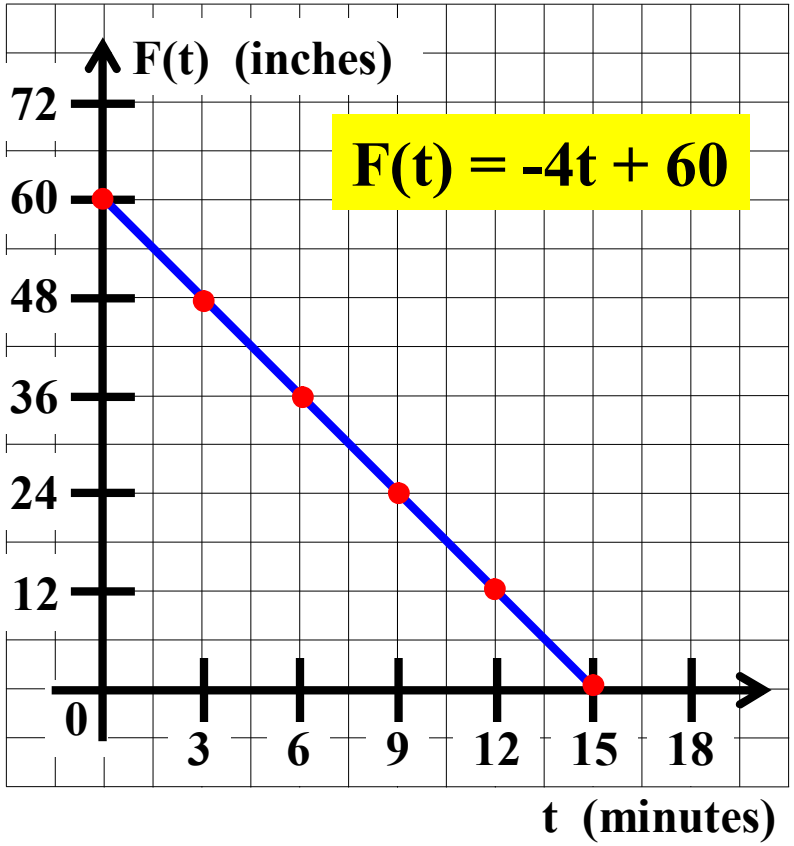

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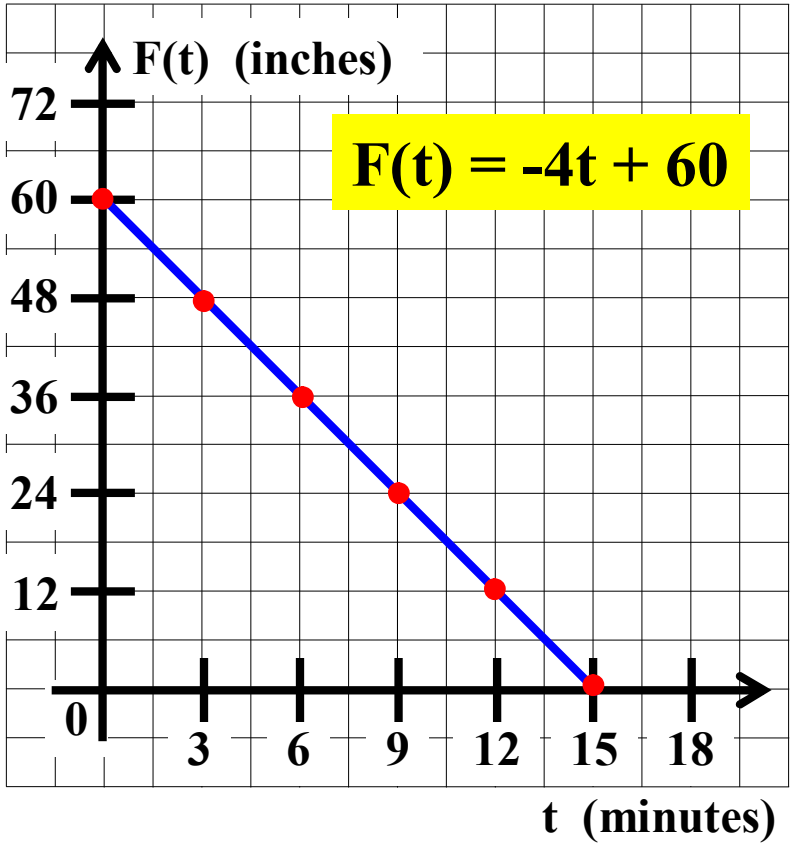

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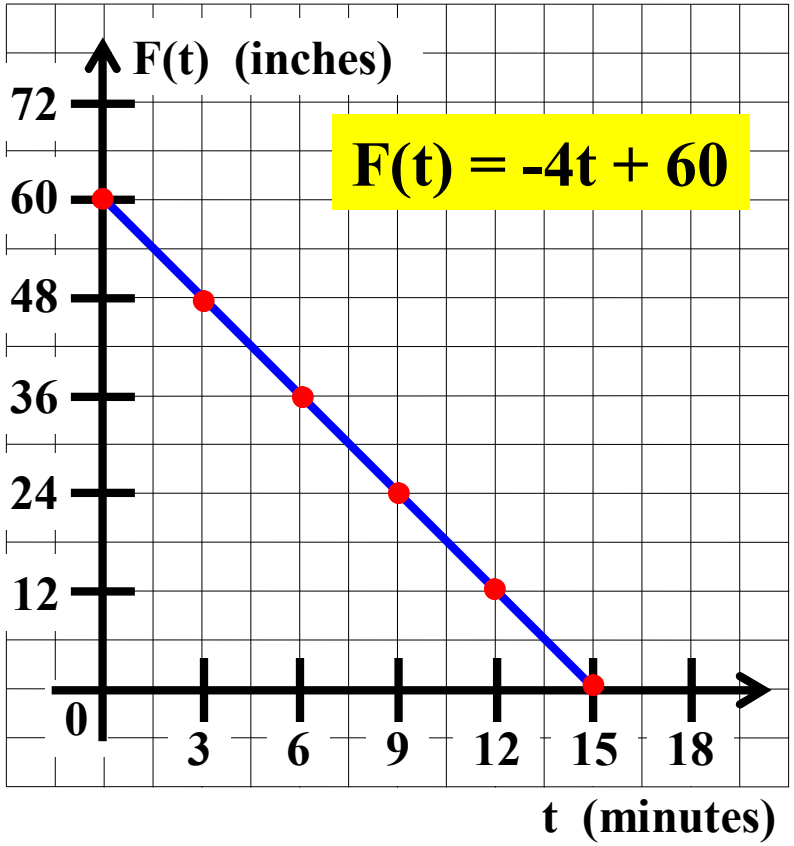

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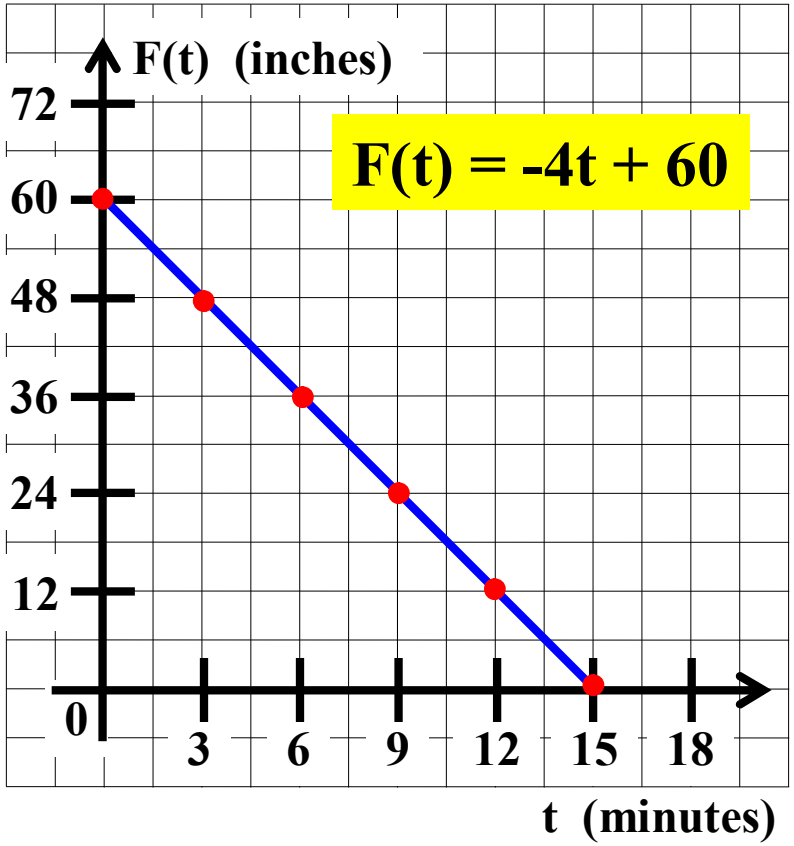

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15. Evaluate F(9).

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

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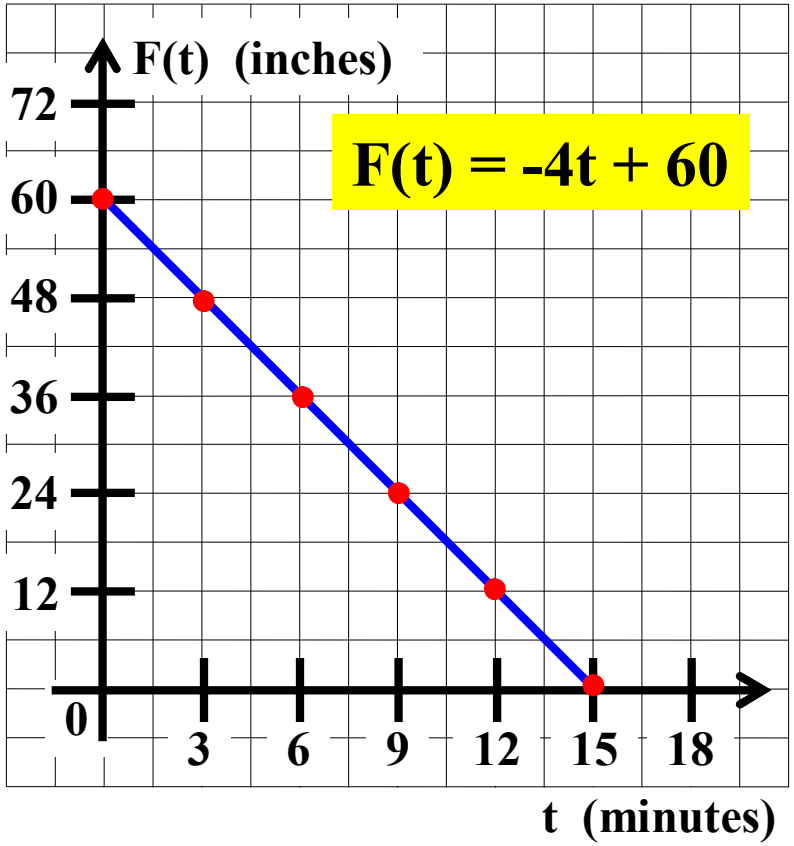

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9. How long will it take to empty the tank? **15 minutes**

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

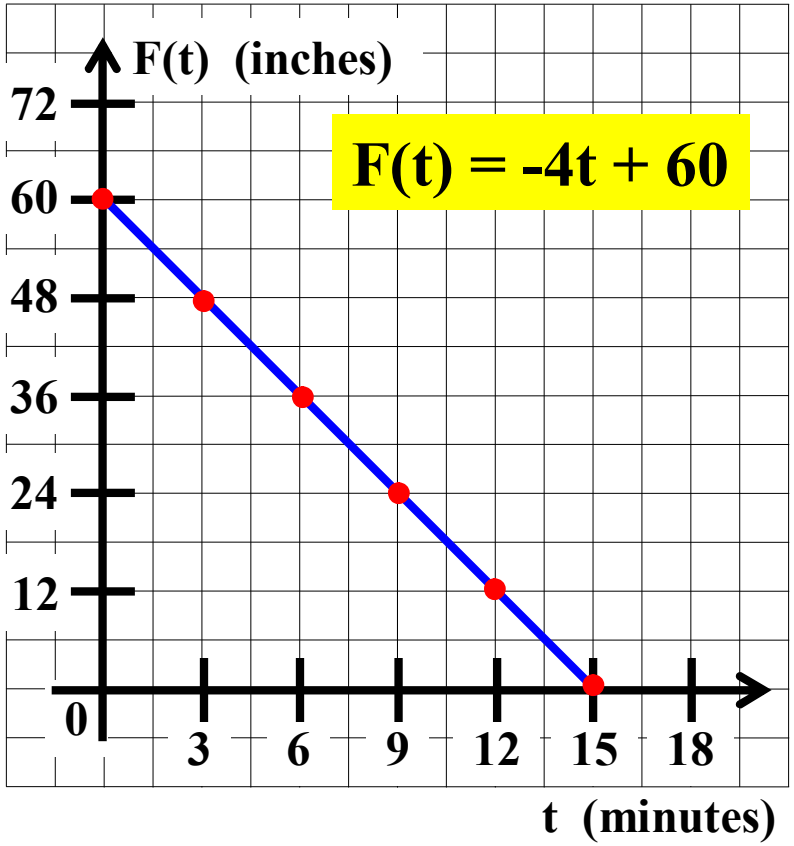
t	F(t)
0	60
3	48
6	36
9	24
12	12
15	0

domain
[0 , 15]
range
[0 , 60]

15. Evaluate F(9).

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

11. Graph function F.



General Algebra II CWS #5 Unit 6

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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

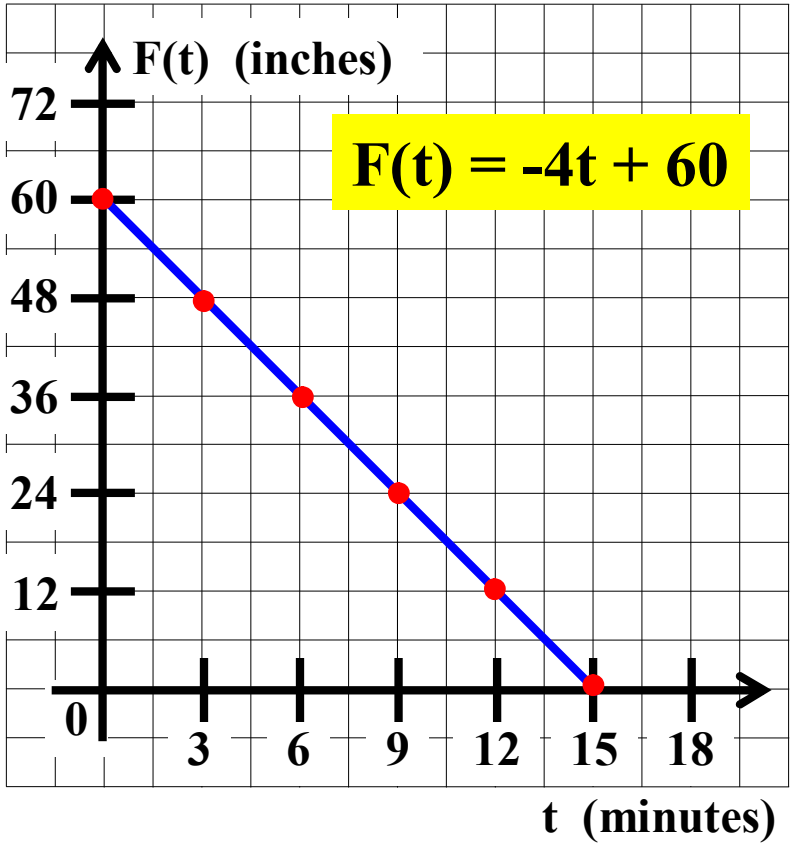
domain
[0 , 15]
range
[0 , 60]

15. Evaluate F(9).

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

F(9) =

11. Graph function F.



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0	60
3	48
6	36
→ 9	24
12	12
15	0

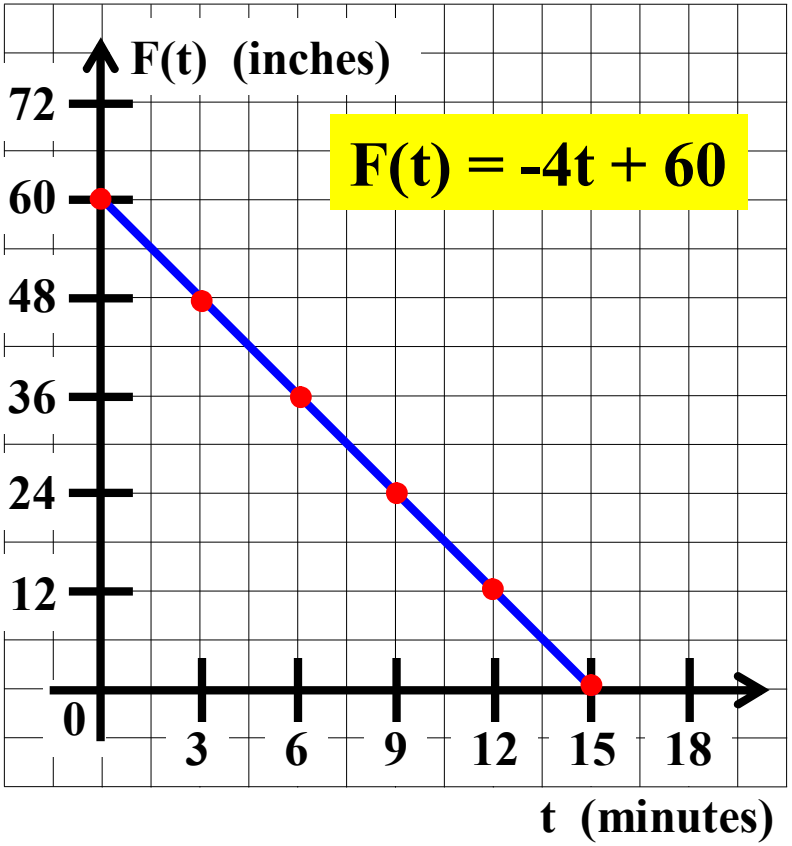
domain
[0 , 15]
range
[0 , 60]

15. Evaluate F(9).

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

F(9) =

11. Graph function F.



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0	60
3	48
6	36
→ 9	24
12	12
15	0

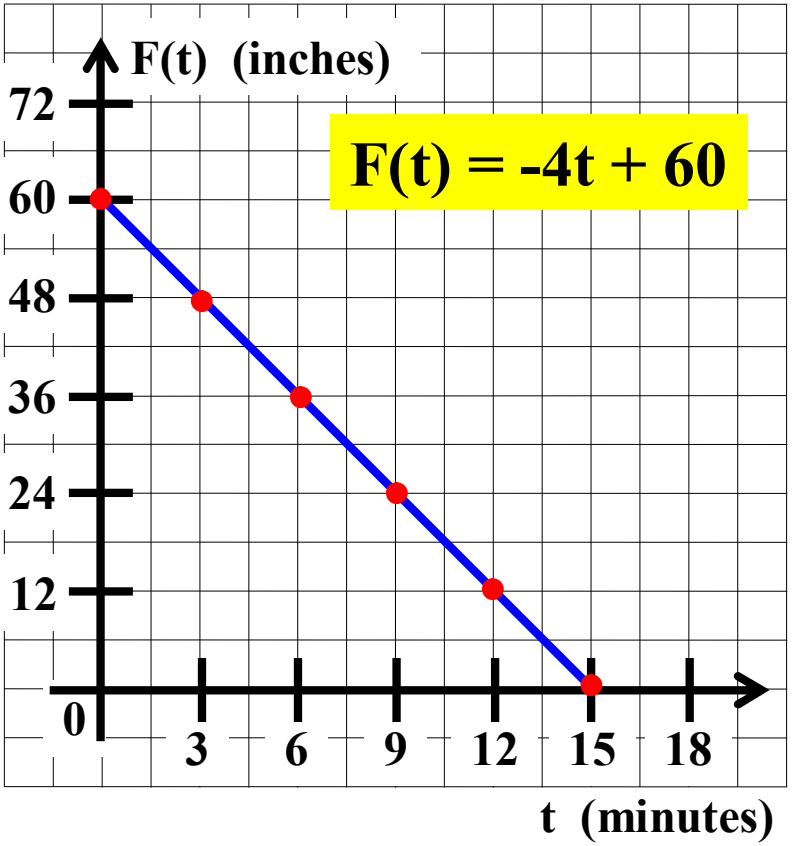
domain
[0 , 15]
range
[0 , 60]

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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→ 9	24
12	12
15	0

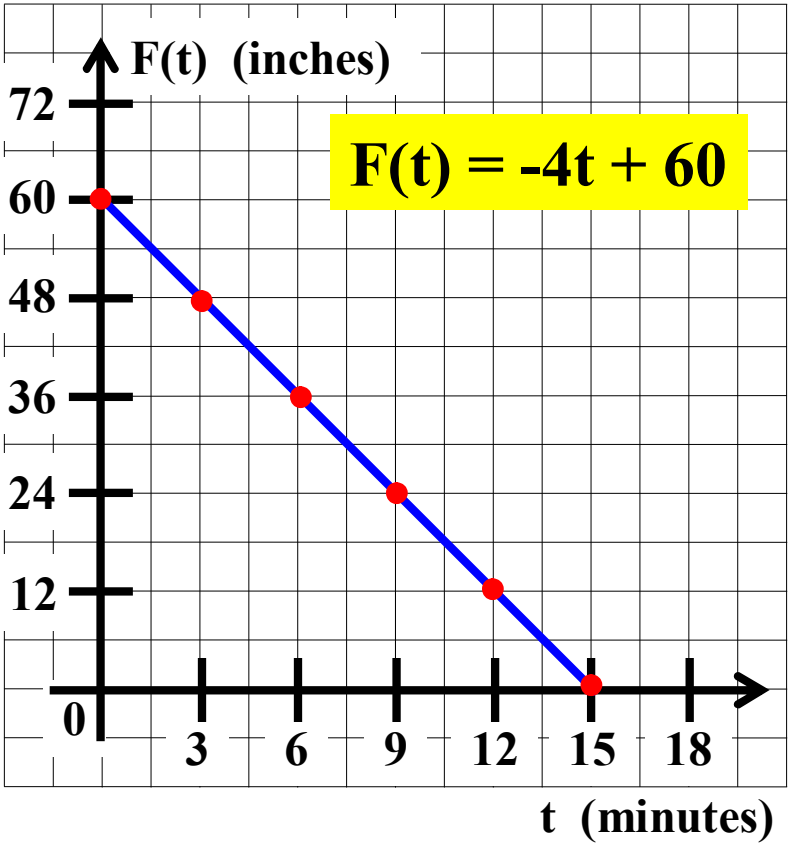
domain
[0 , 15]
range
[0 , 60]

15. Evaluate F(9).

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

F(9) = 24 inches

11. Graph function F.



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domain
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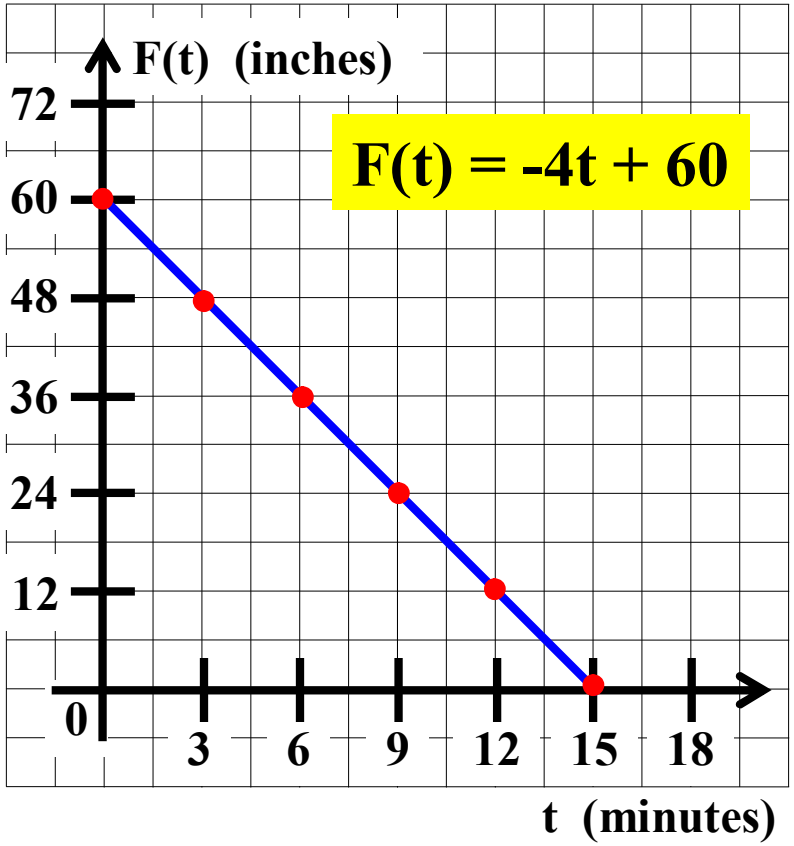
range
[0 , 60]

15. Evaluate F(9).

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

F(9) = 24 inches

11. Graph function F.



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3	48
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12	12
15	0

domain
[0 , 15]
range
[0 , 60]

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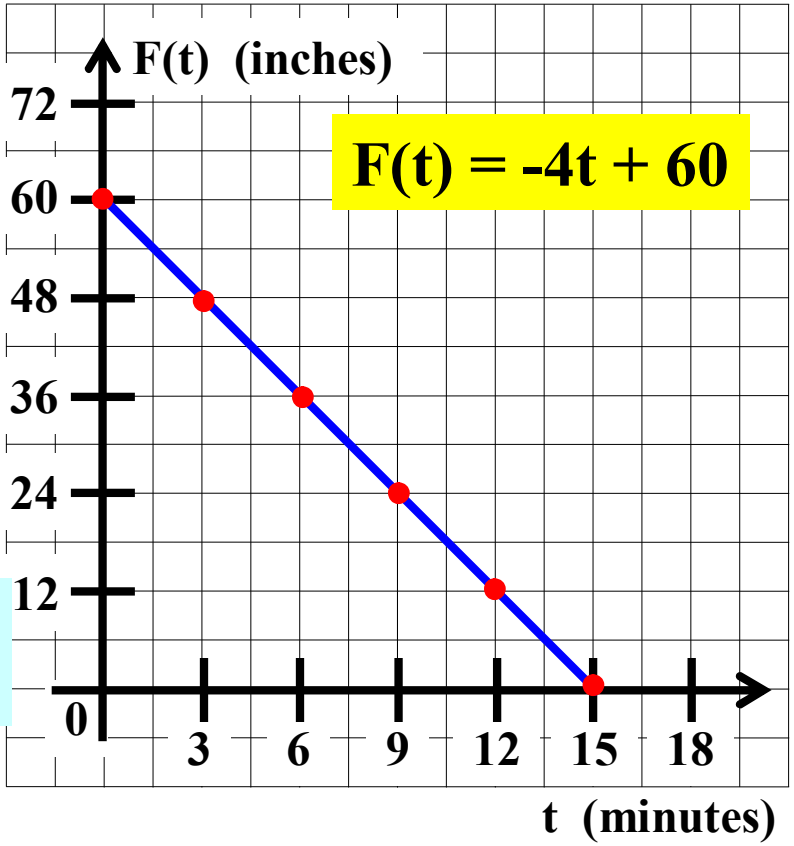

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F(9) = 24 inches

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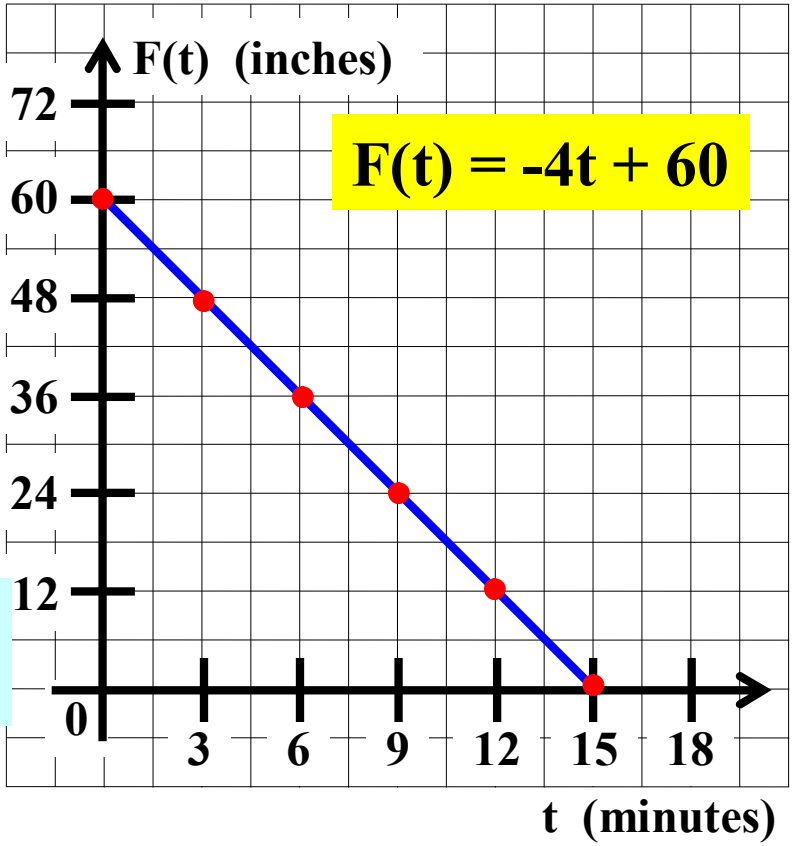

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F(9) = 24 inches

F(9) represents

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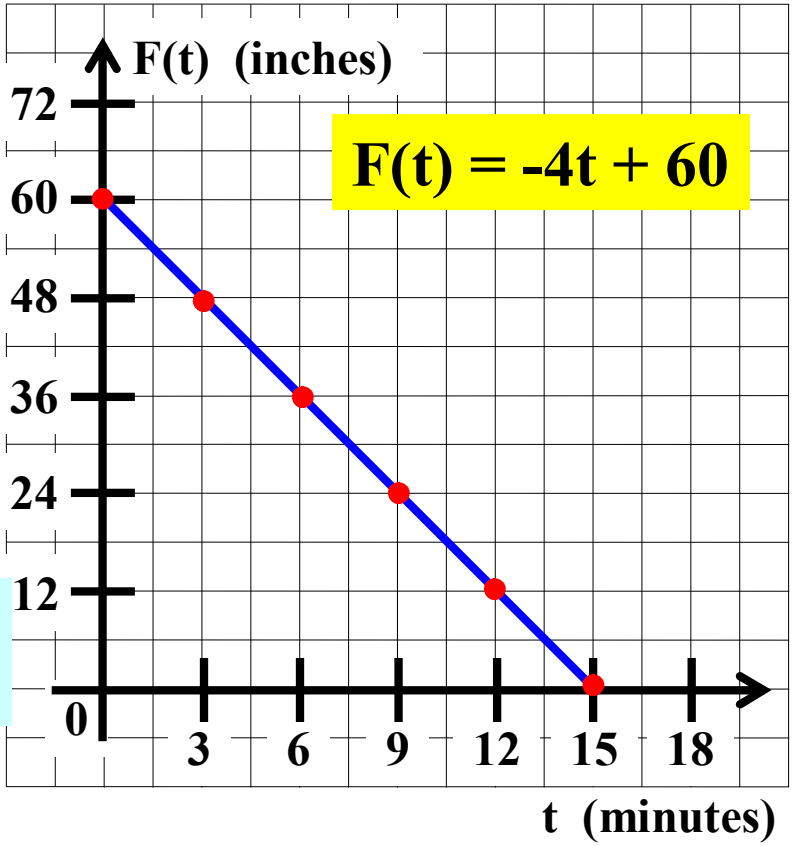

15. Evaluate F(9).

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

F(9) = 24 inches

F(9) represents the depth of the water

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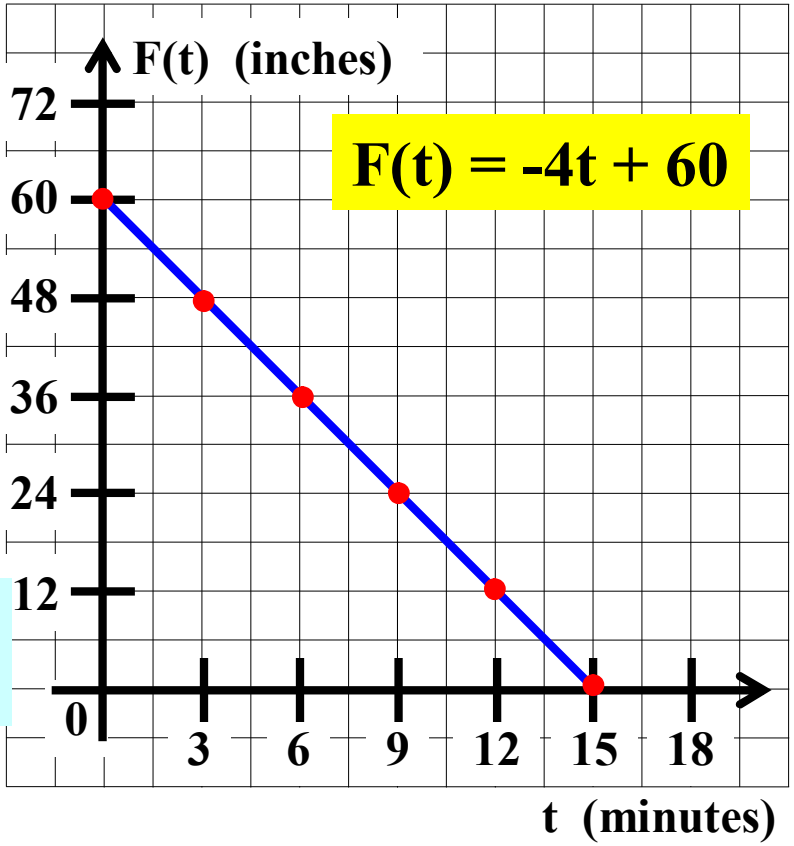

15. Evaluate F(9).

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

F(9) = 24 inches

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

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3	48
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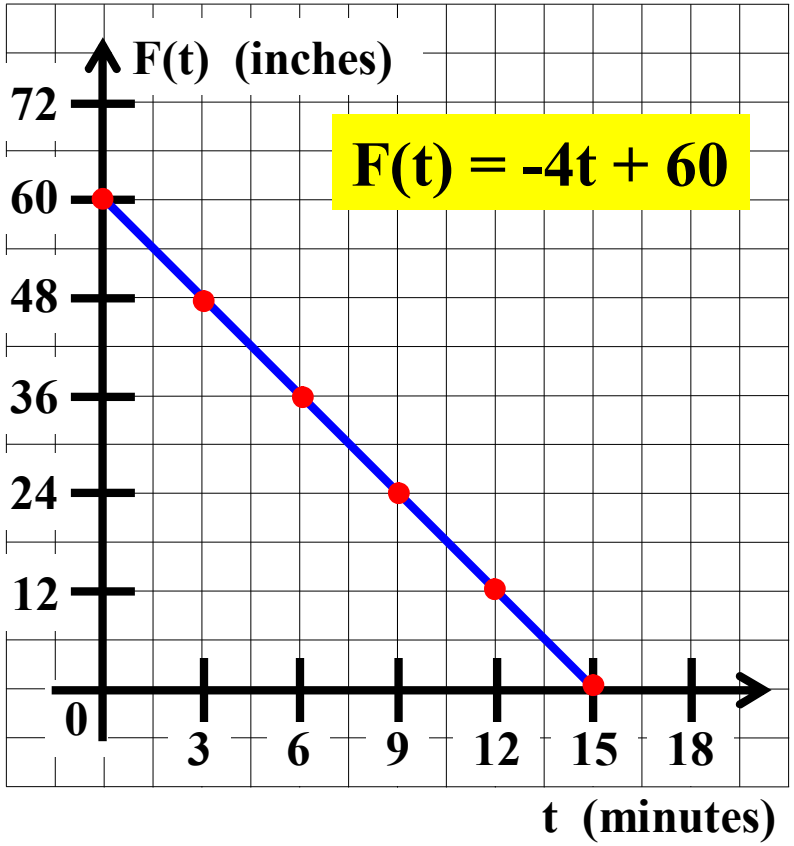

15. Evaluate F(9).

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

F(9) = 24 inches

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

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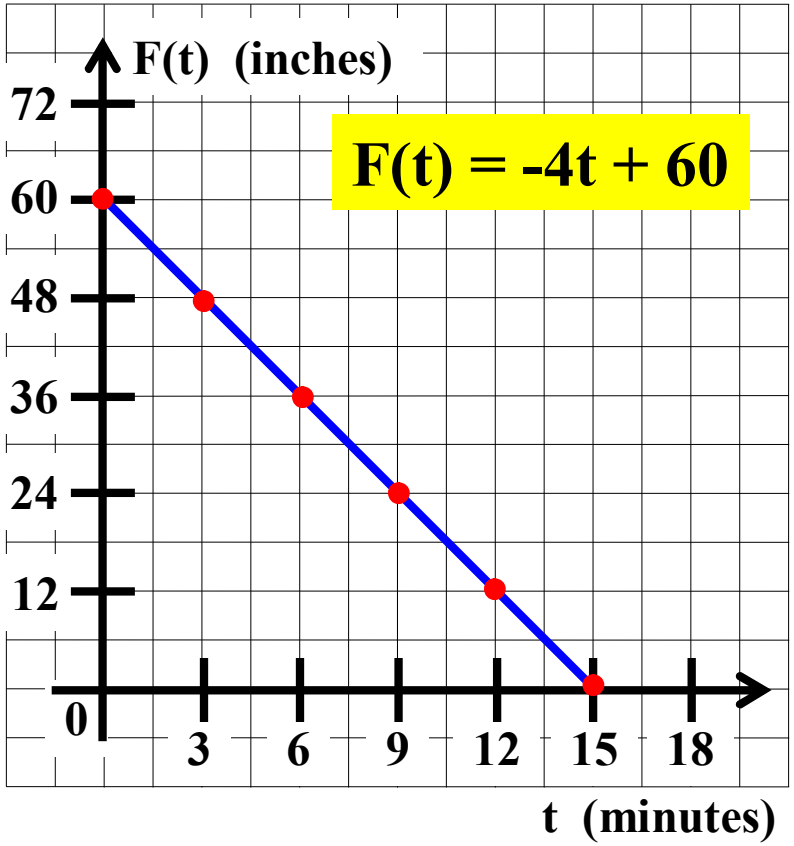

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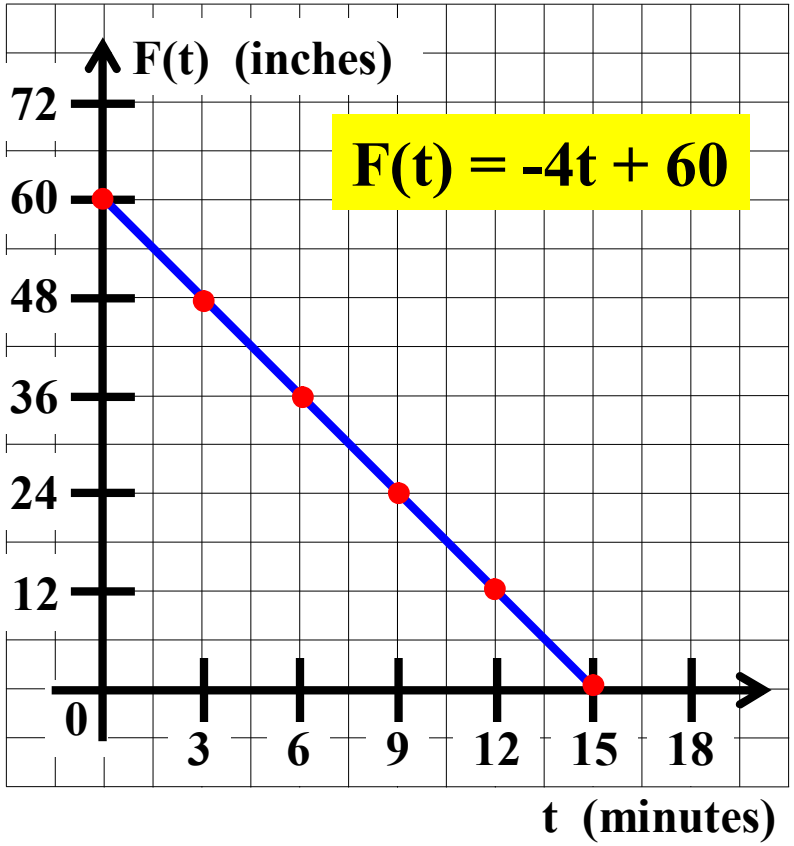
range
[0 , 60]

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

11. Graph function F.



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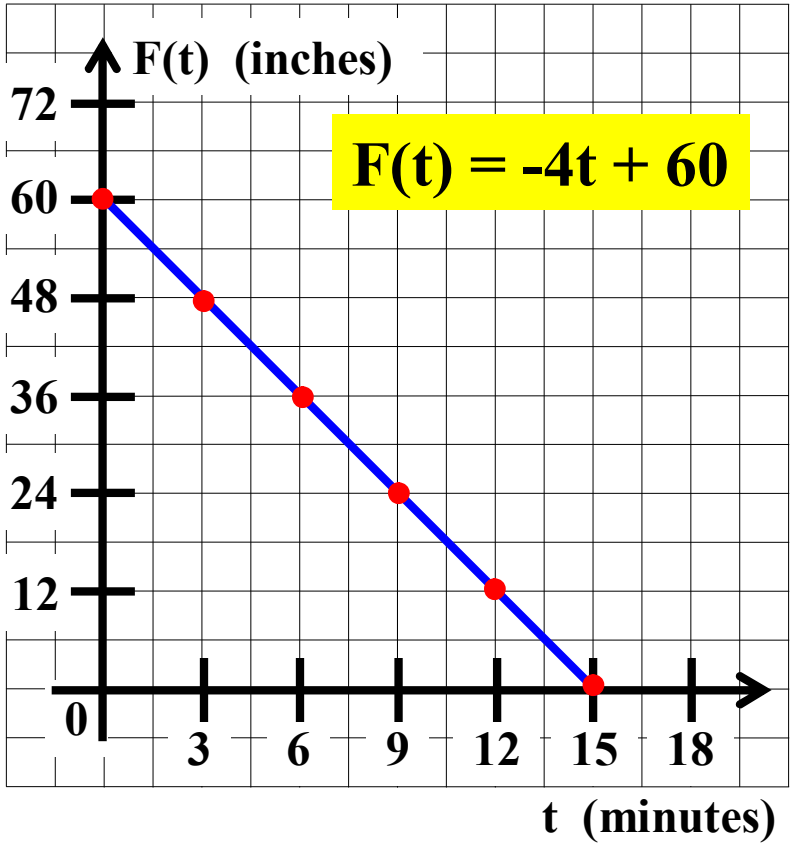

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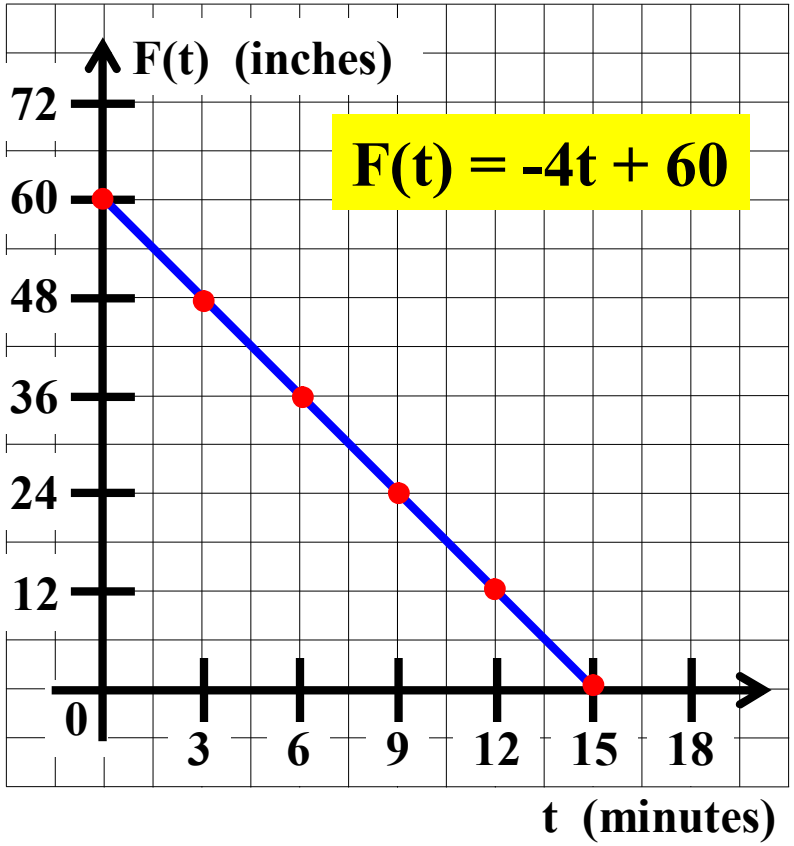
What does this value of t represent in terms of the problem?
F(t) = 20

11. Graph function F.



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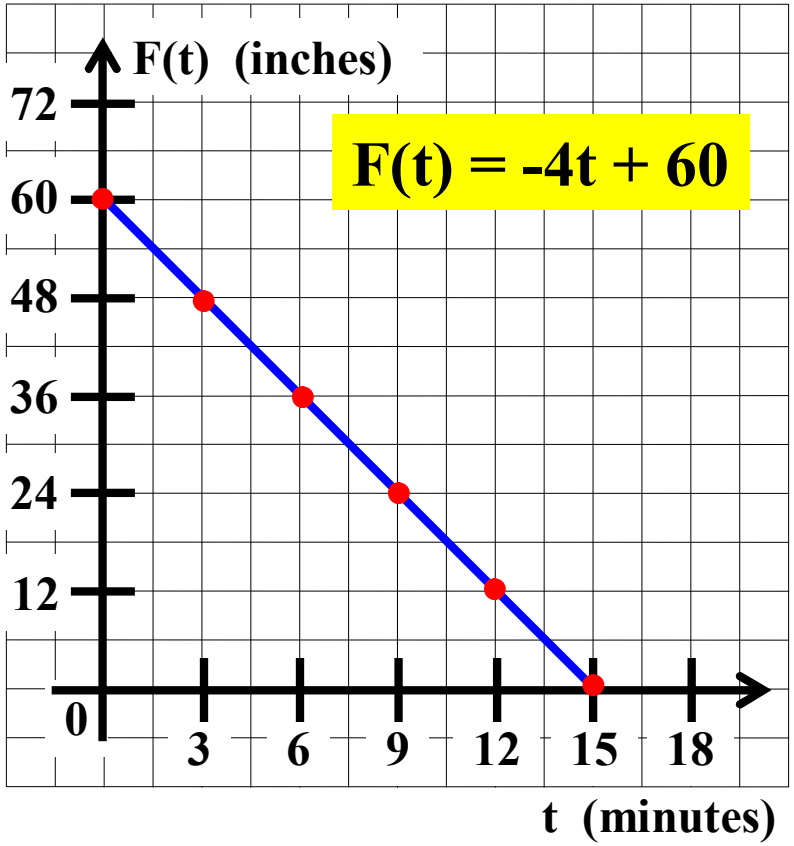

16. If F(t) = 20, then find the value of t.
What does this value of t represent in terms of the problem?

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

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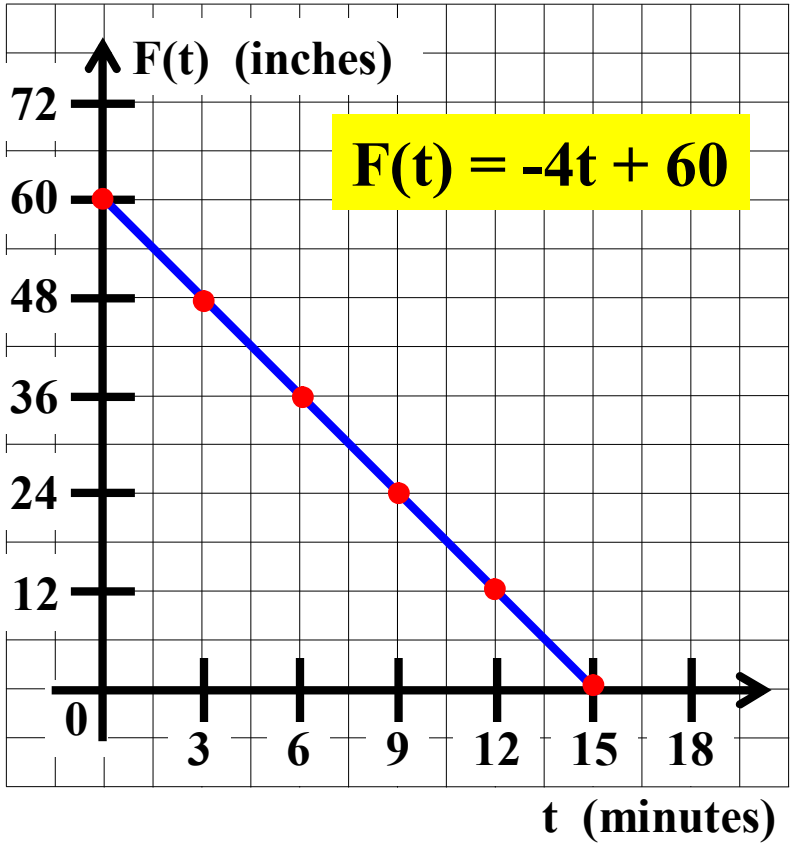

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$$F(t) = 20$$
$$-4t + 60 = 20$$

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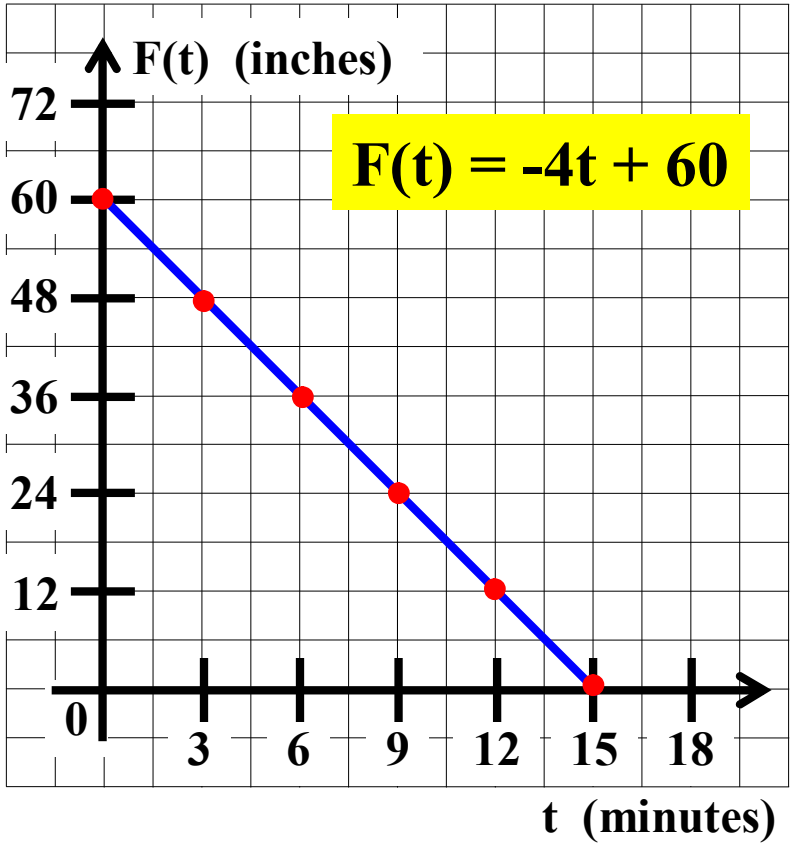

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$F(t) = 20$
$-4t + 60 = 20$ ➡

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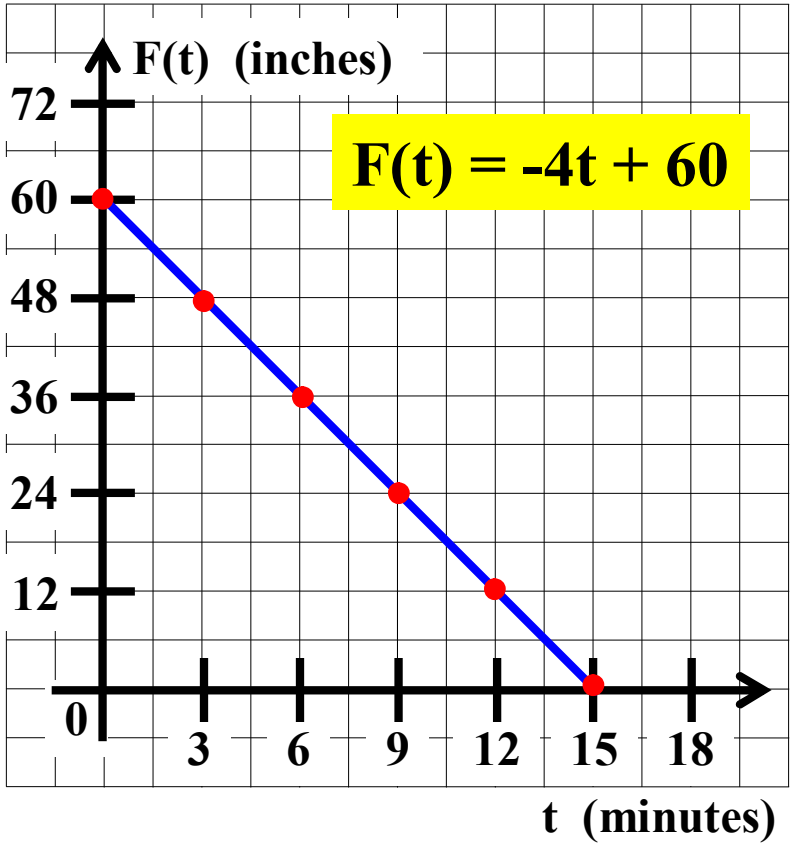

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$F(t) = 20$

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

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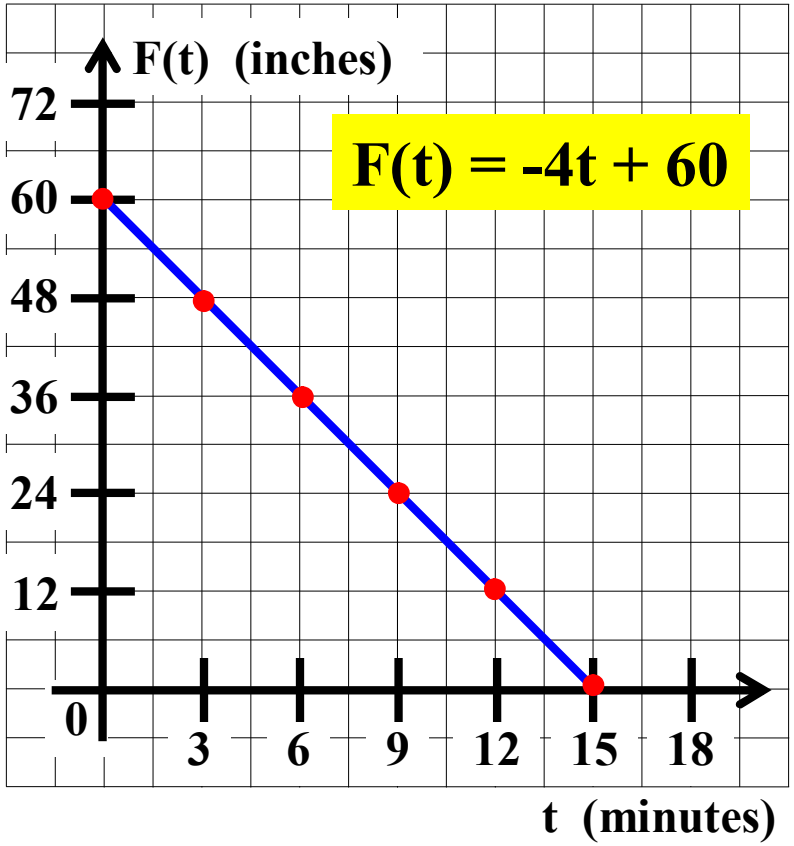

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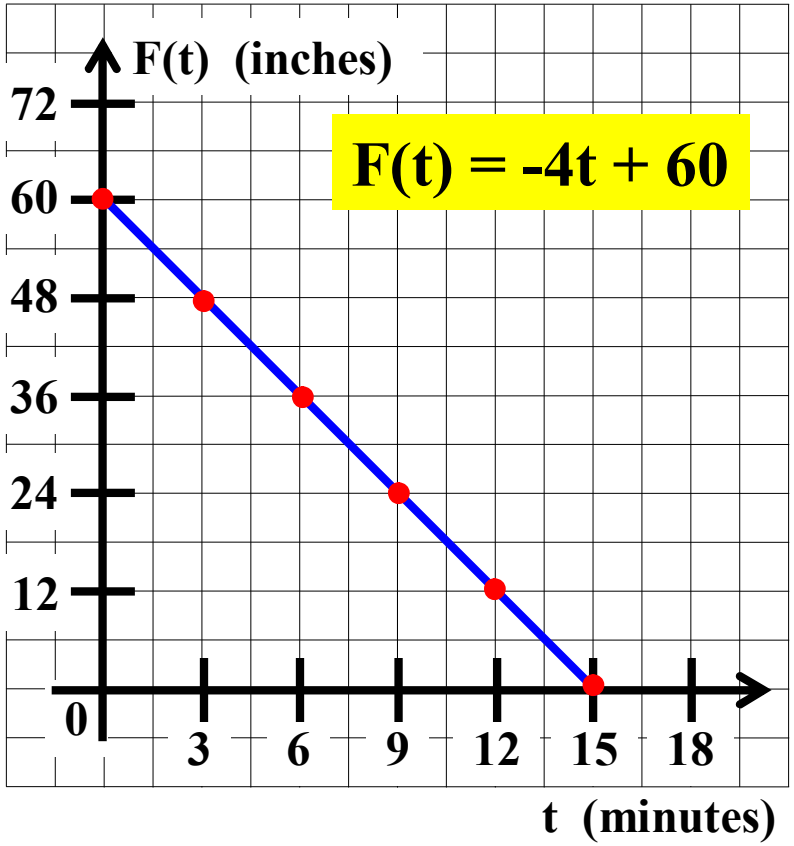

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$F(t) = 20$

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

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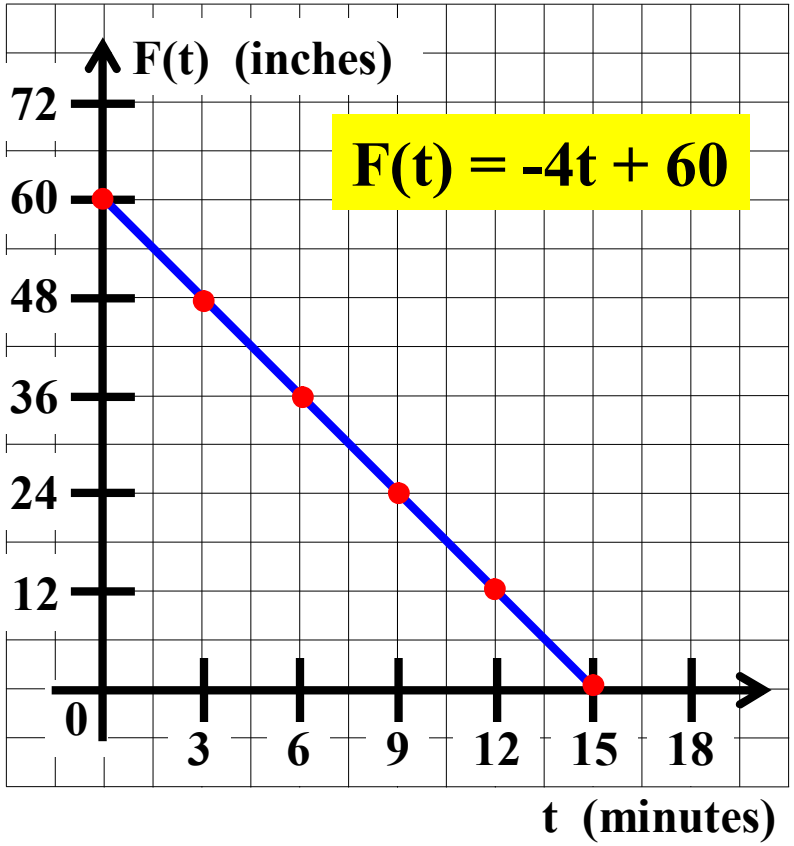
[0 , 15]
range
[0 , 60]

11. Graph function F.



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

$F(t) = 20 \Rightarrow$
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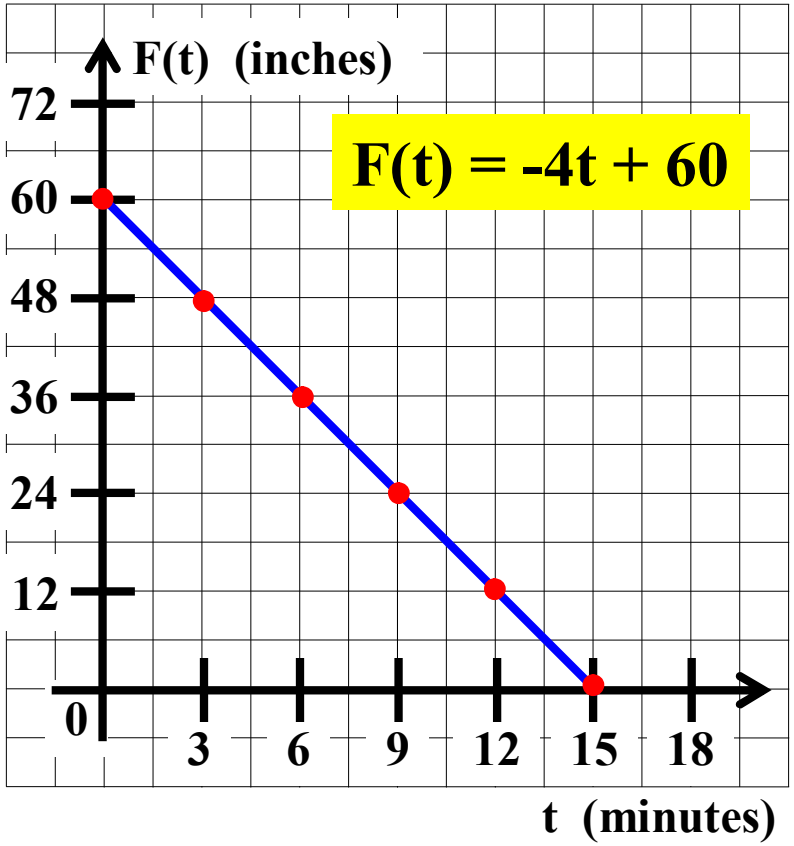

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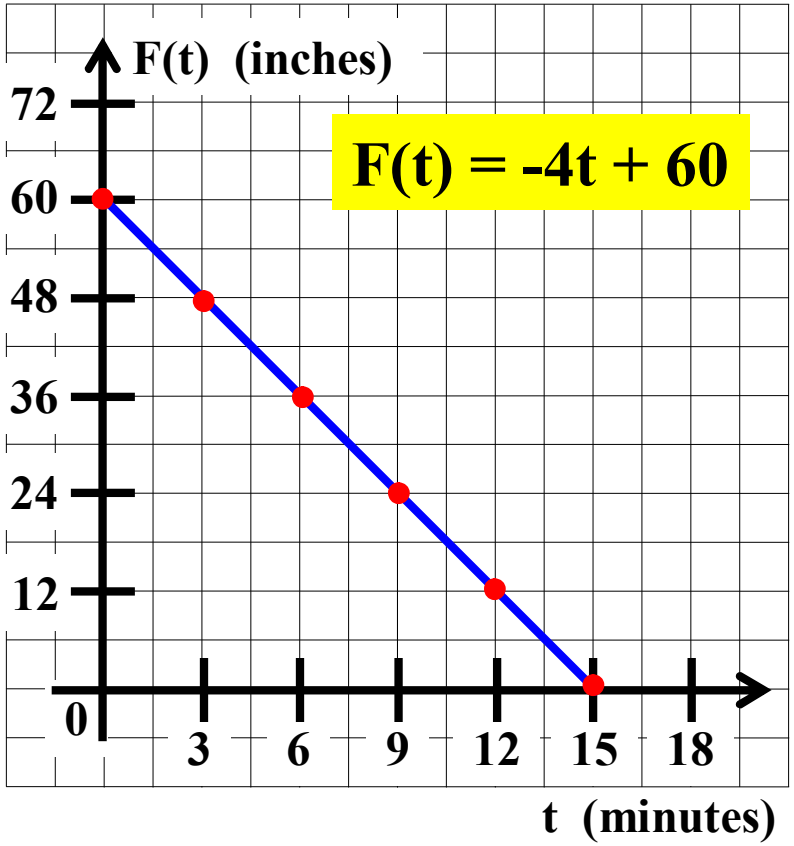

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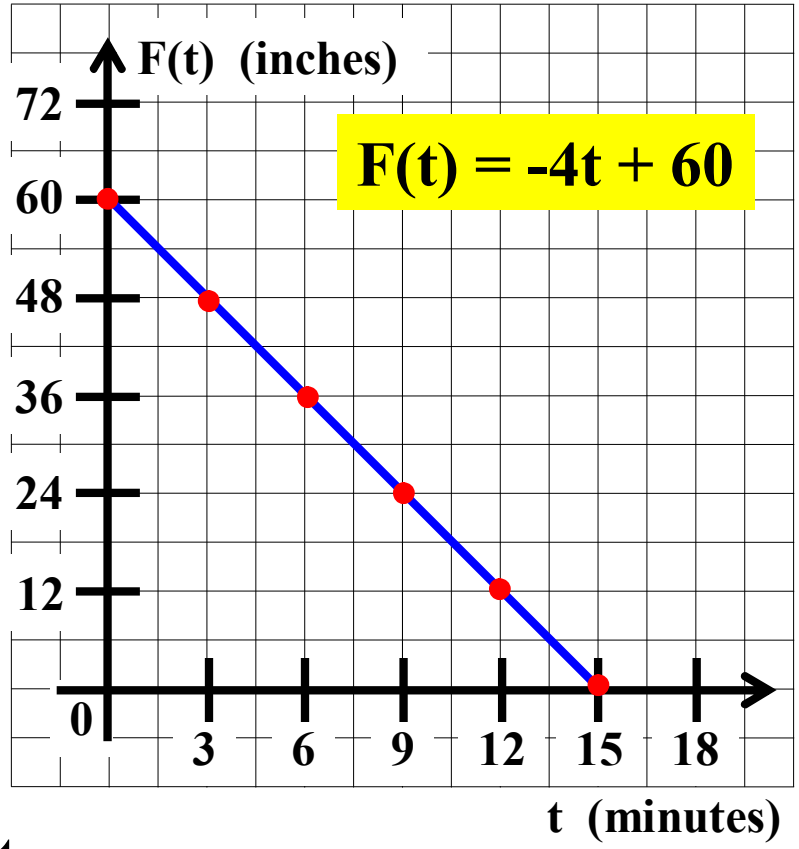

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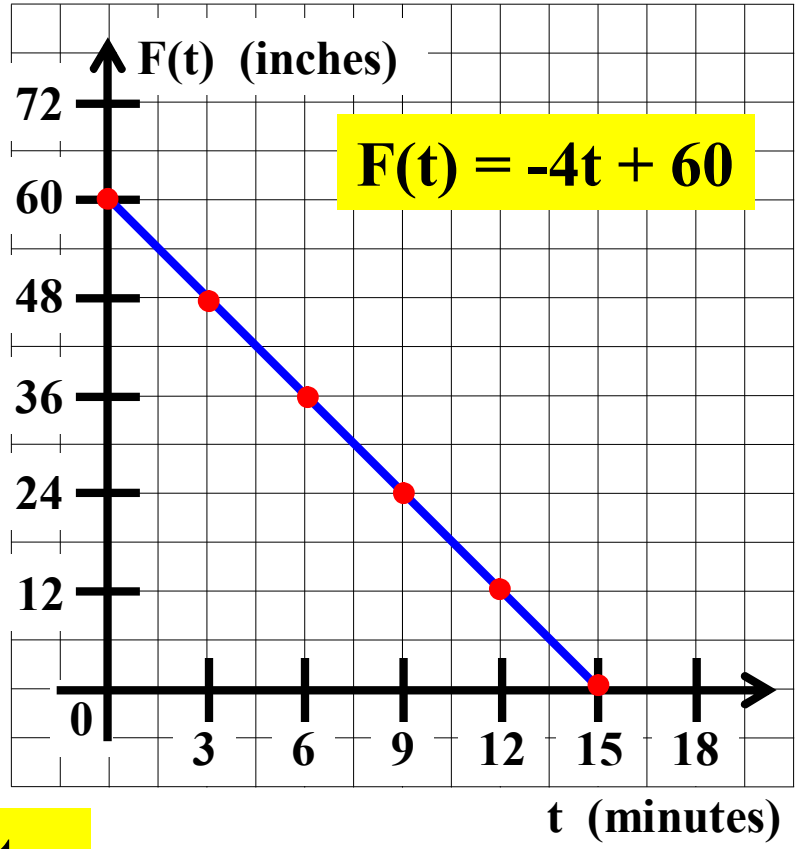

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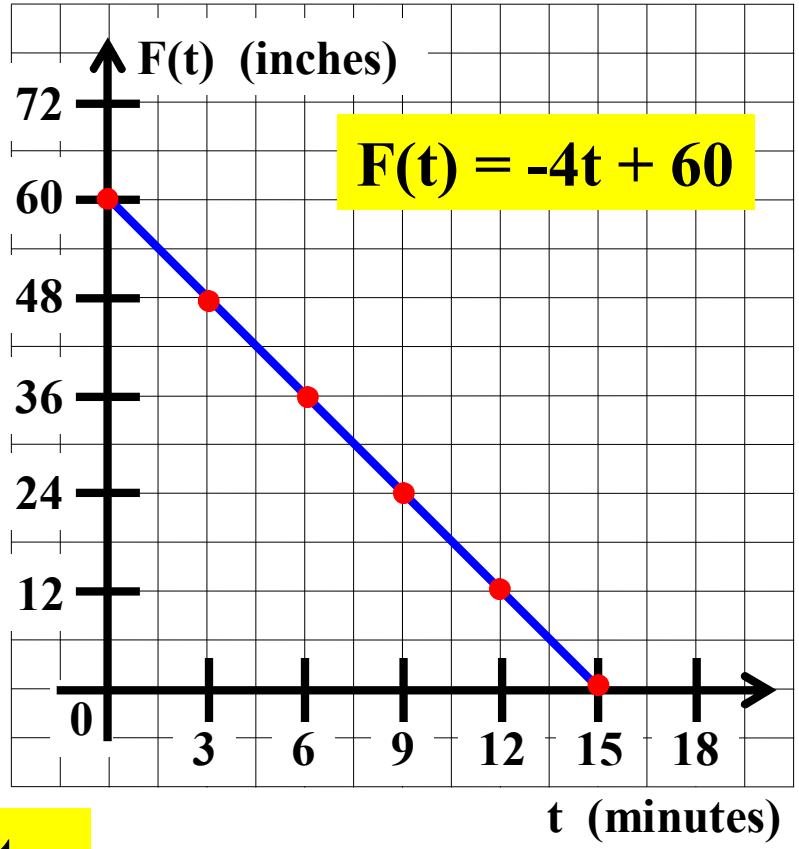

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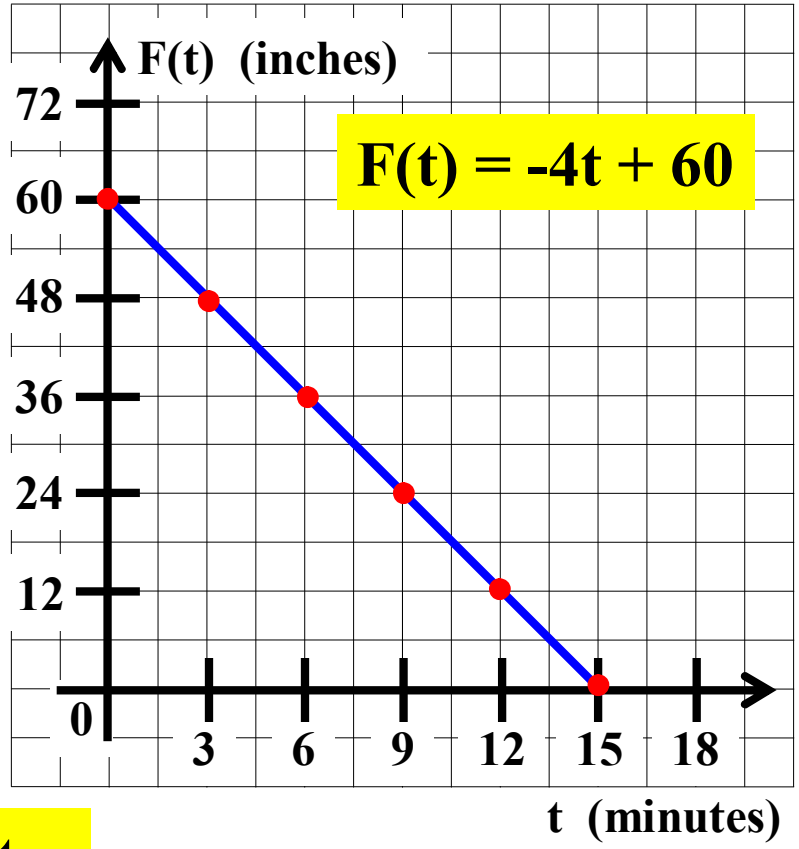

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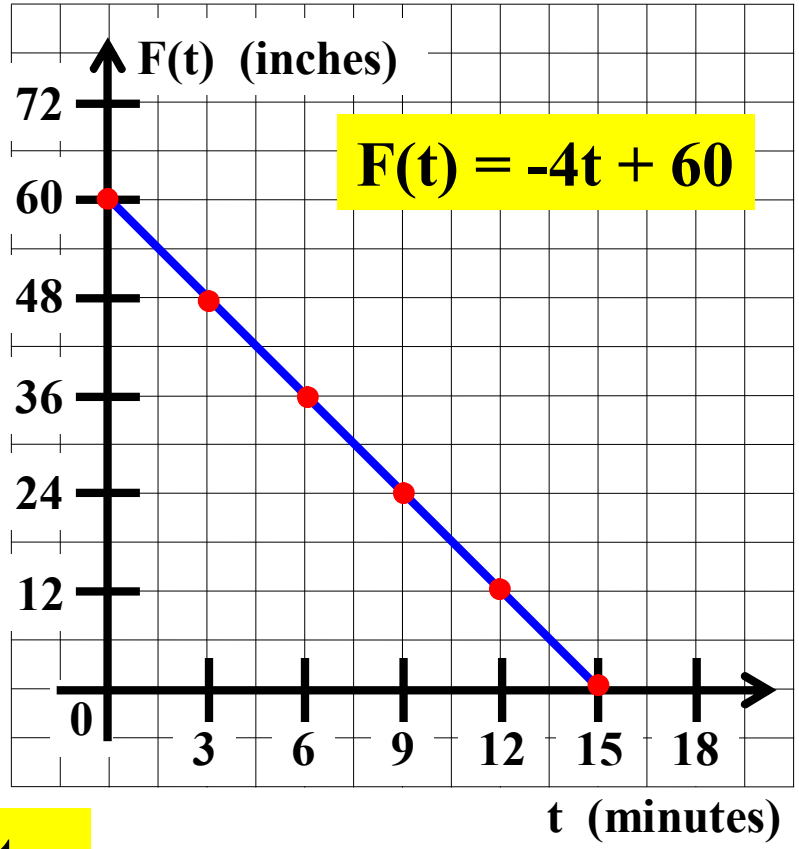

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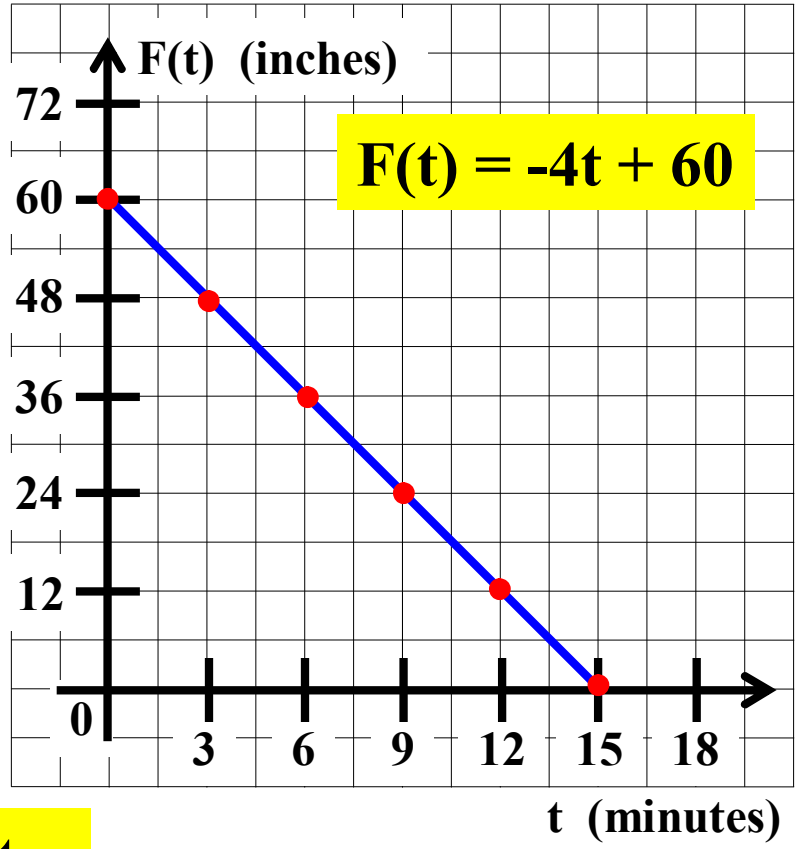

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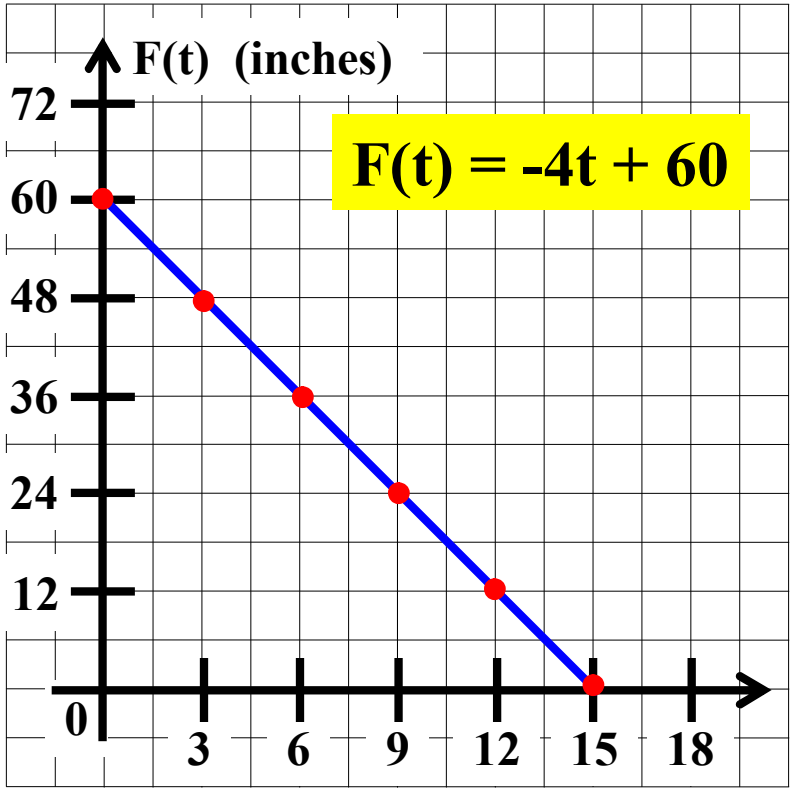

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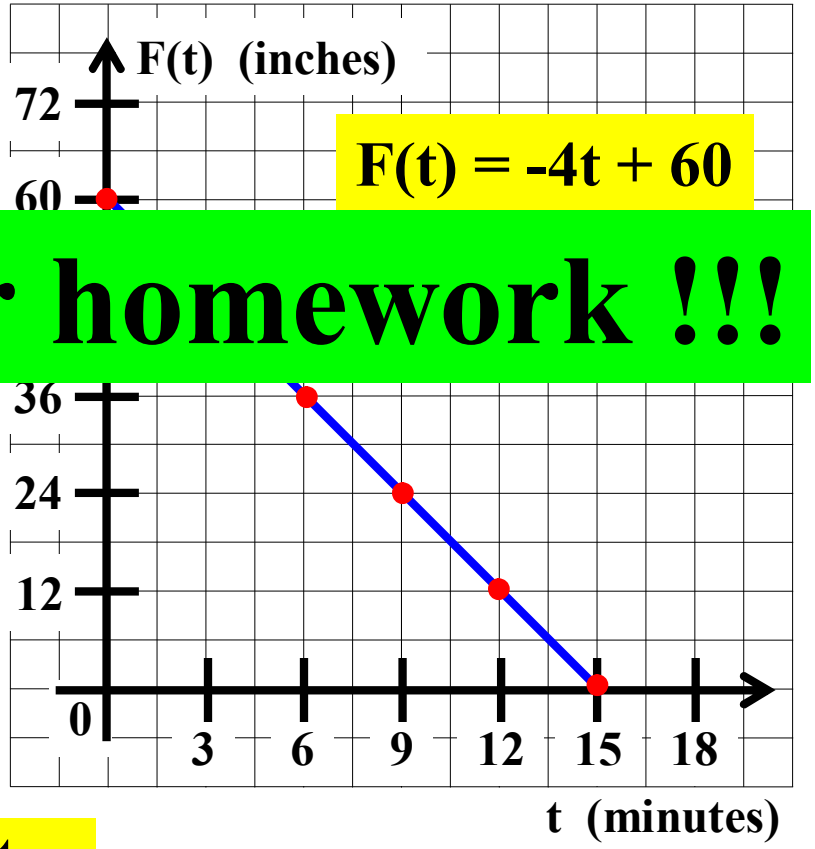

F(t) = -4t + 60

domain

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Good luck on your homework !!!

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