

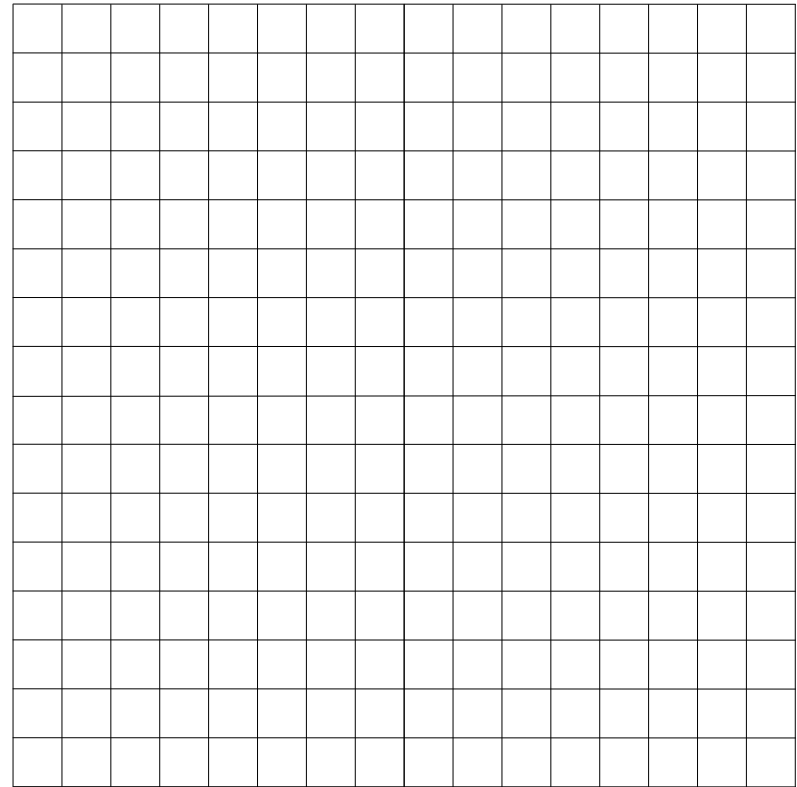
Algebra I Lesson #4 Unit 8
Class Worksheet #4
For Worksheets #7&8

Algebra I Class Worksheet #4 Unit 8

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1. Make a table giving t and $P(t)$ every 4 hours from $t = 0$ to $t = 20$.

2. Graph function P .

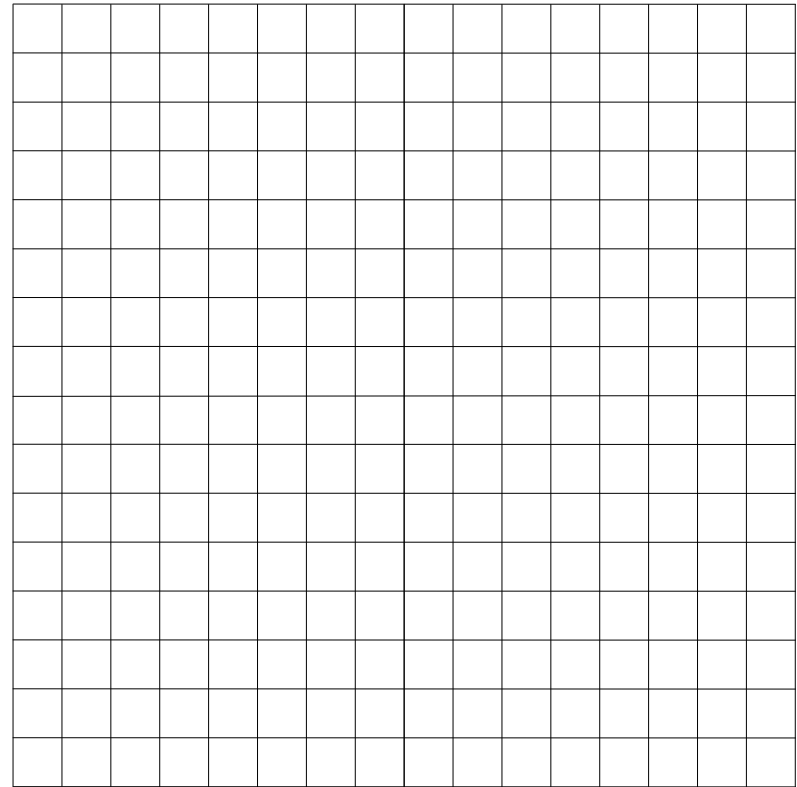


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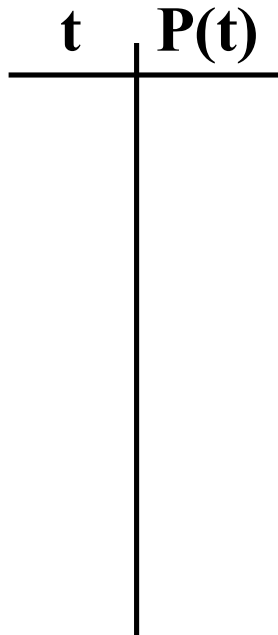
2. Graph function P .



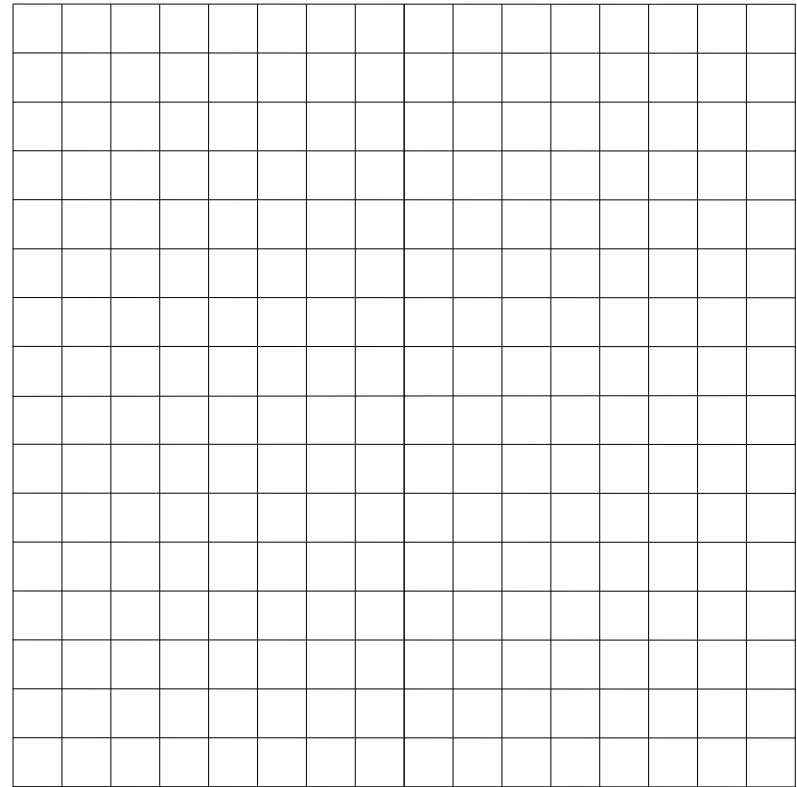
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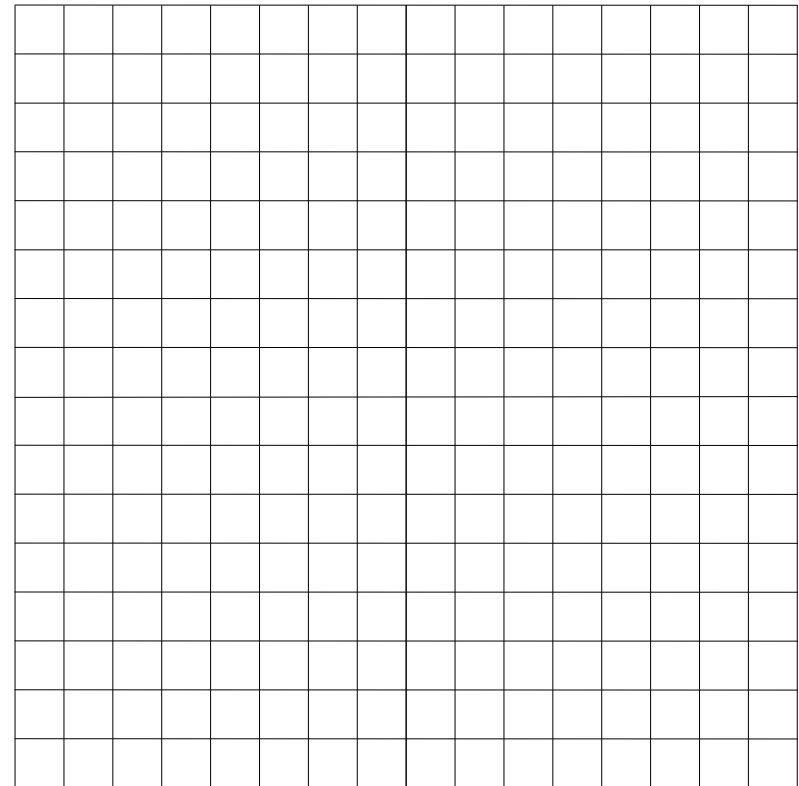
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t	$P(t)$
0	

2. Graph function P .



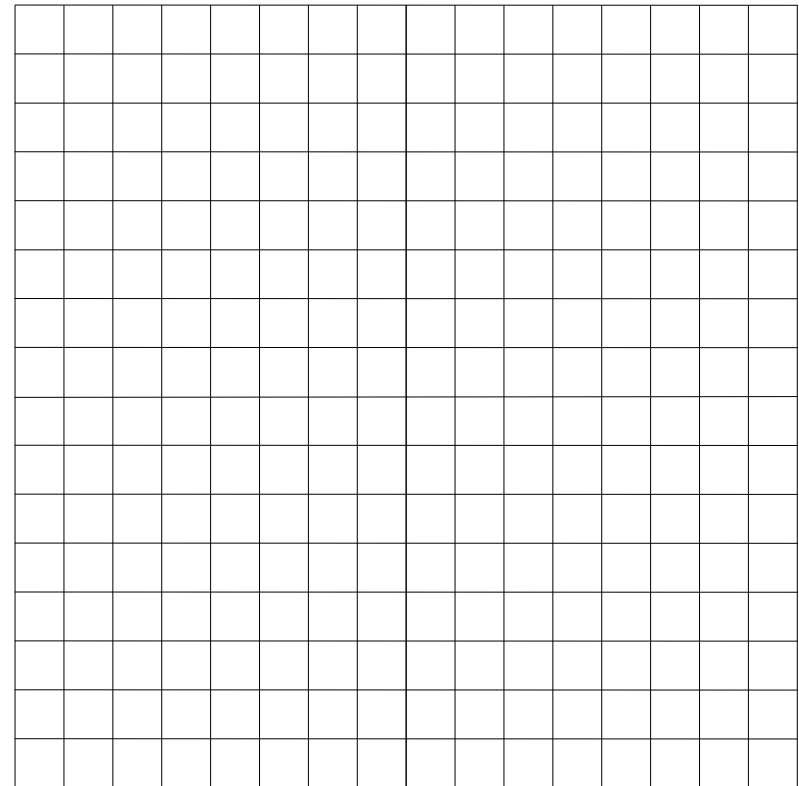
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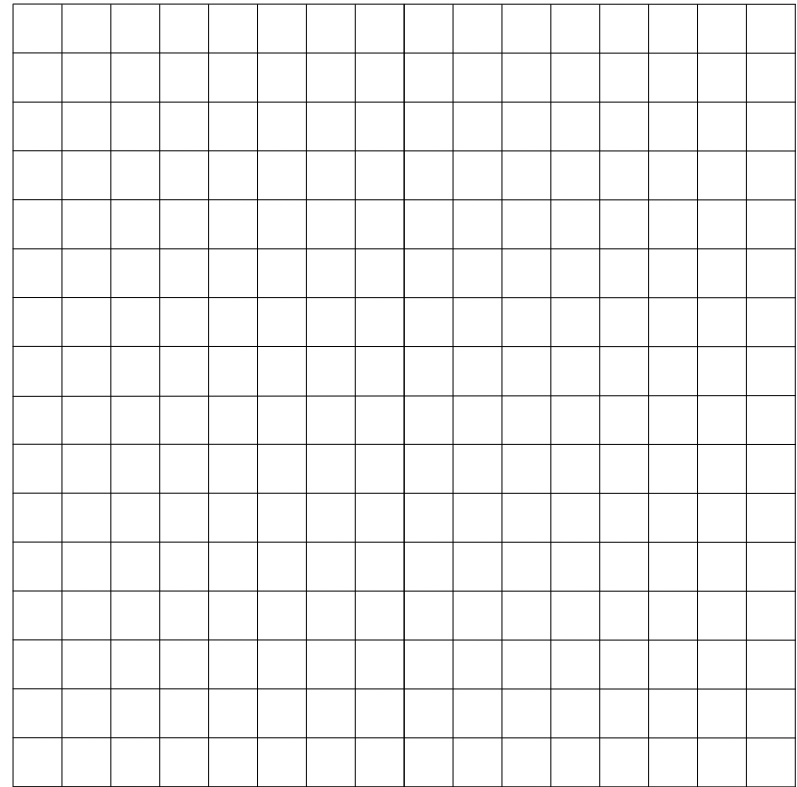
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t	$P(t)$
0	0
4	

2. Graph function P .



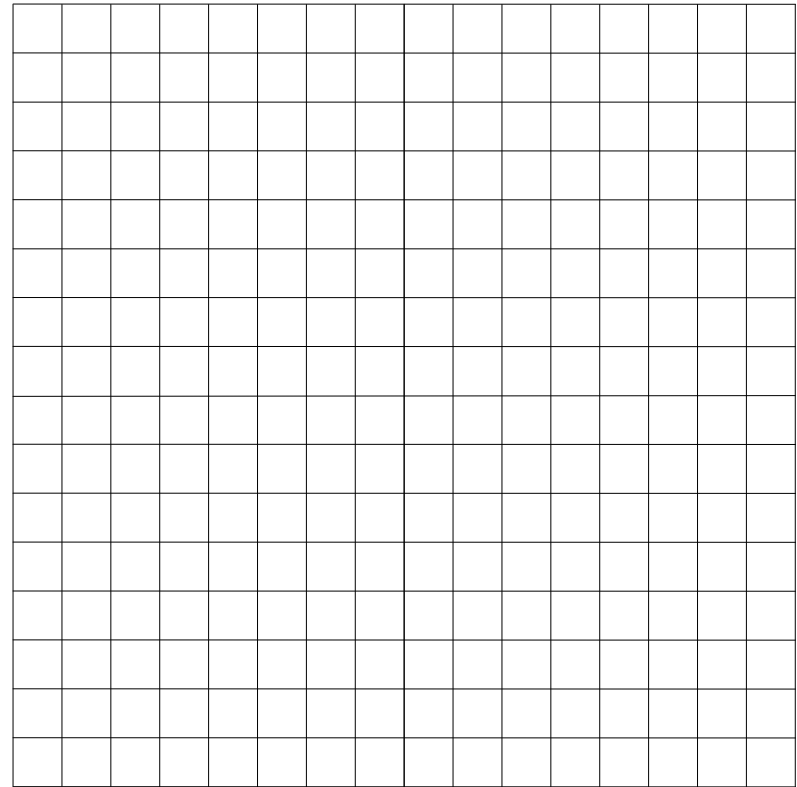
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1. Make a table giving t and $P(t)$ every 4 hours from $t = 0$ to $t = 20$.

t	$P(t)$
0	0
4	32

2. Graph function P .



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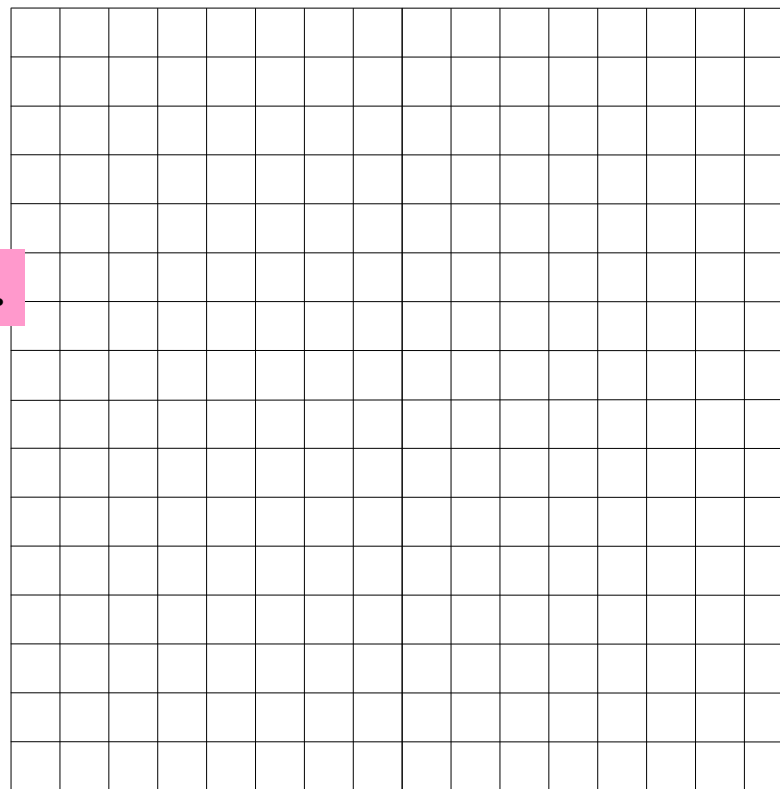
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t	$P(t)$
0	0
4	32

\$8 per hour for 4 hours.

2. Graph function P .



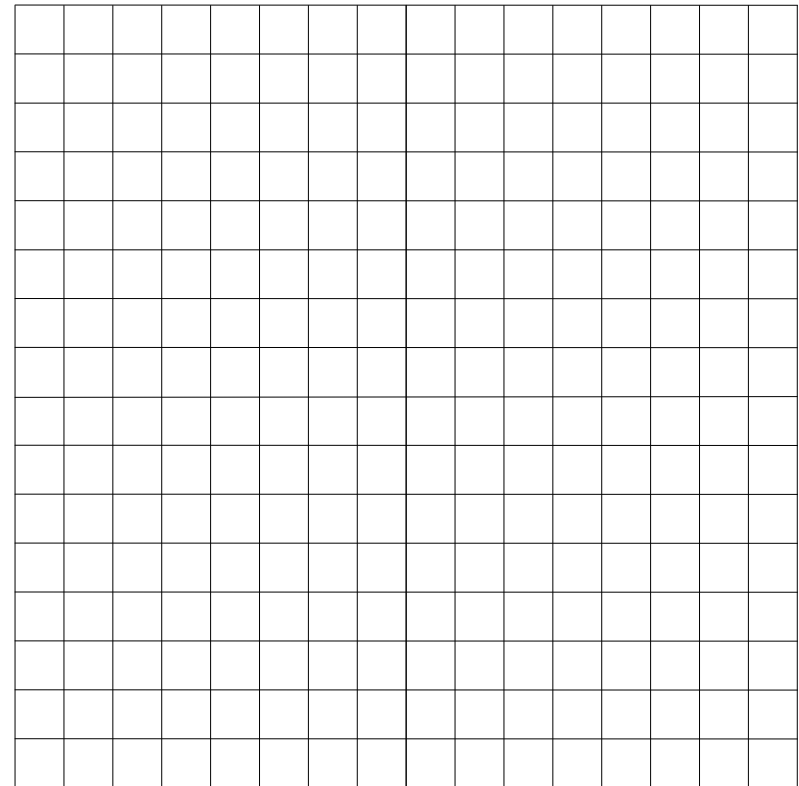
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0	0
4	32

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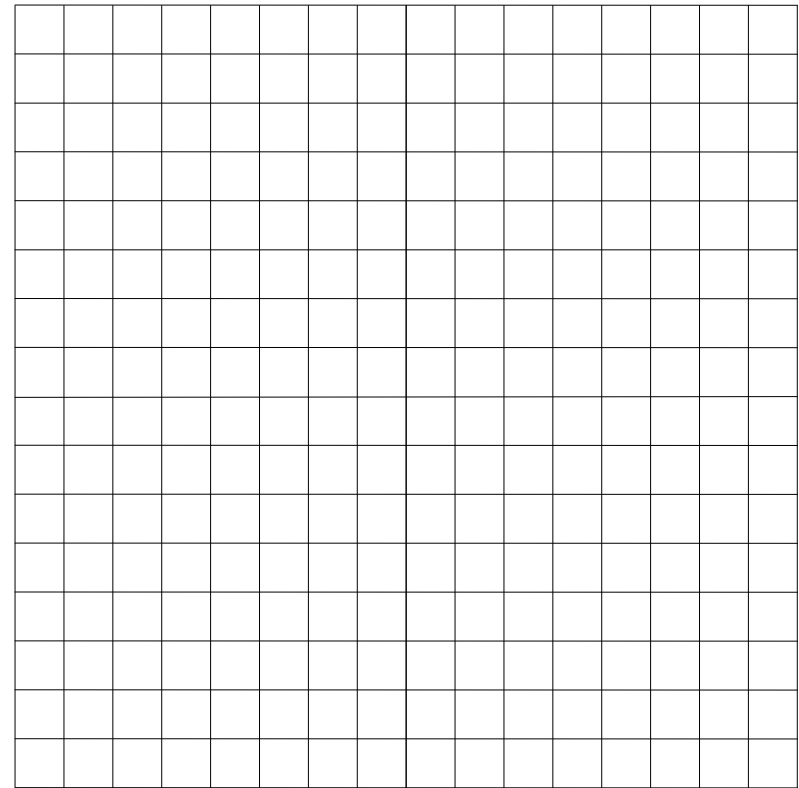
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t	$P(t)$
0	0
4	32
8	

2. Graph function P .



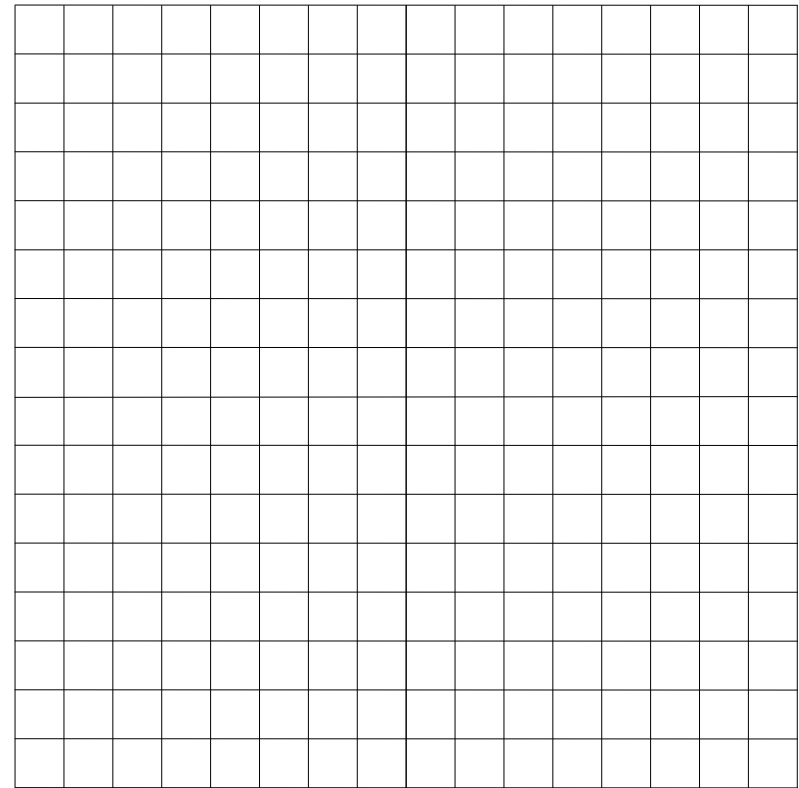
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t	$P(t)$
0	0
4	32
8	64

2. Graph function P .



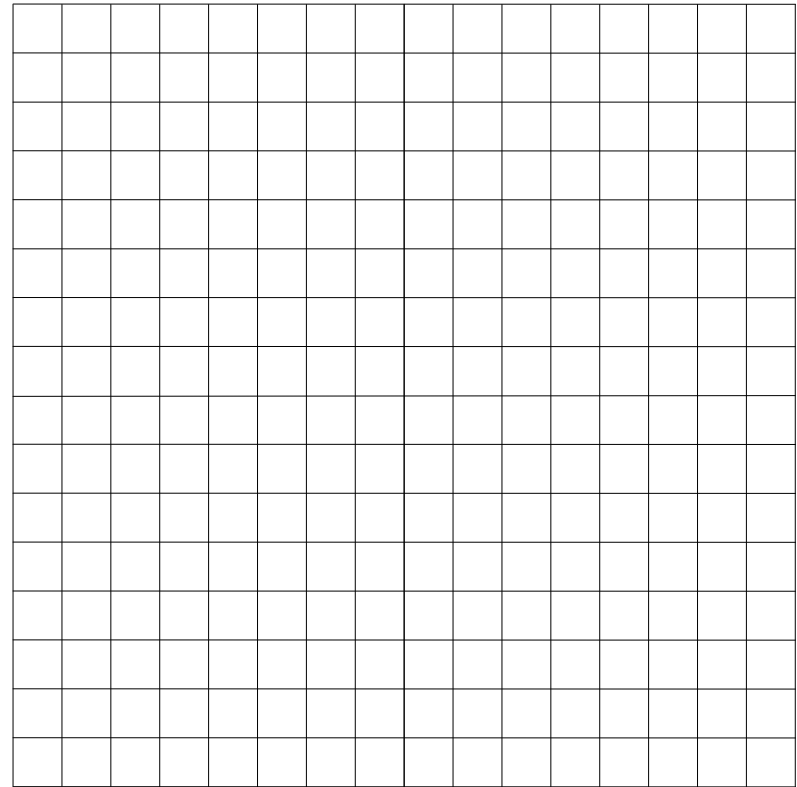
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t	$P(t)$
0	0
4	32
8	64
12	

2. Graph function P .



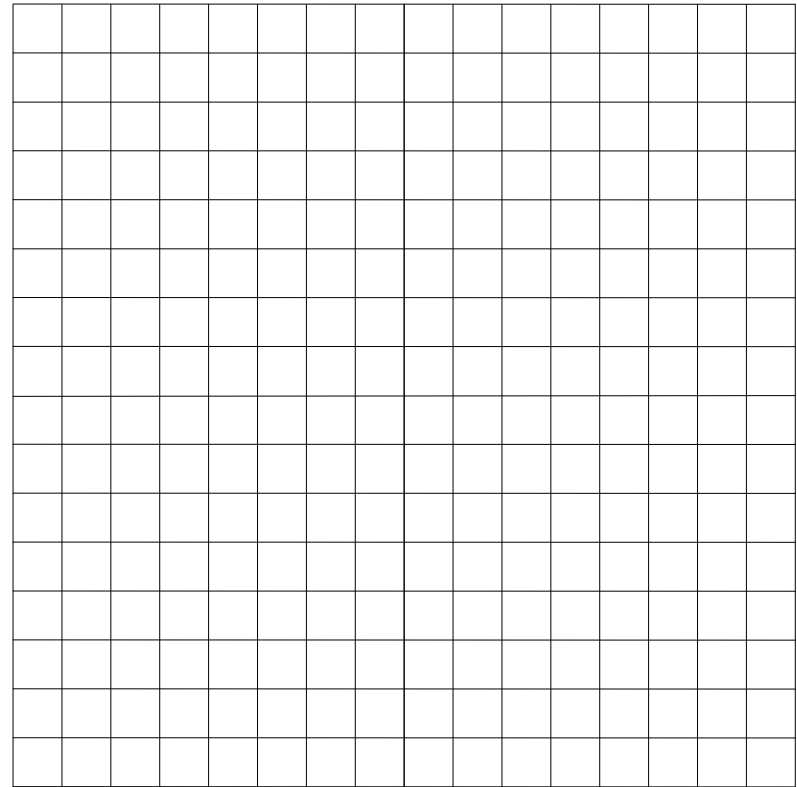
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t	$P(t)$
0	0
4	32
8	64
12	96

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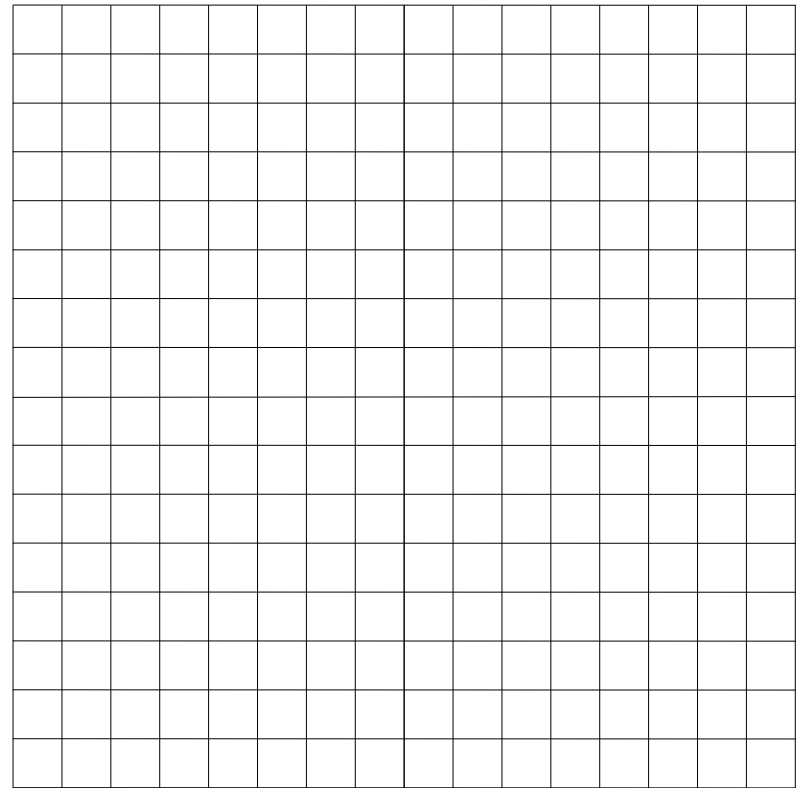
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t	$P(t)$
0	0
4	32
8	64
12	96
16	

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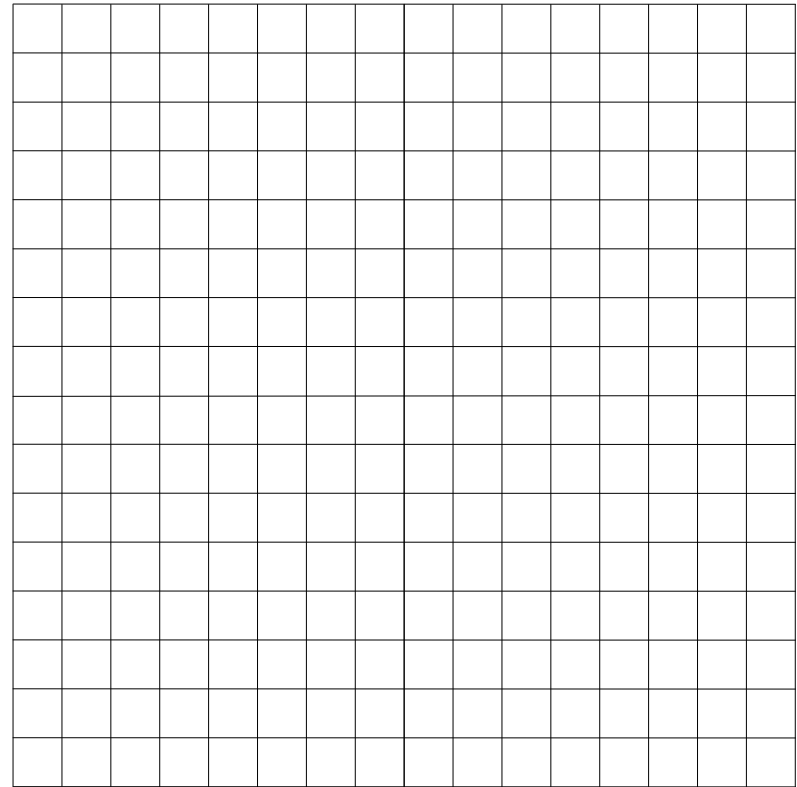
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0	0
4	32
8	64
12	96
16	128

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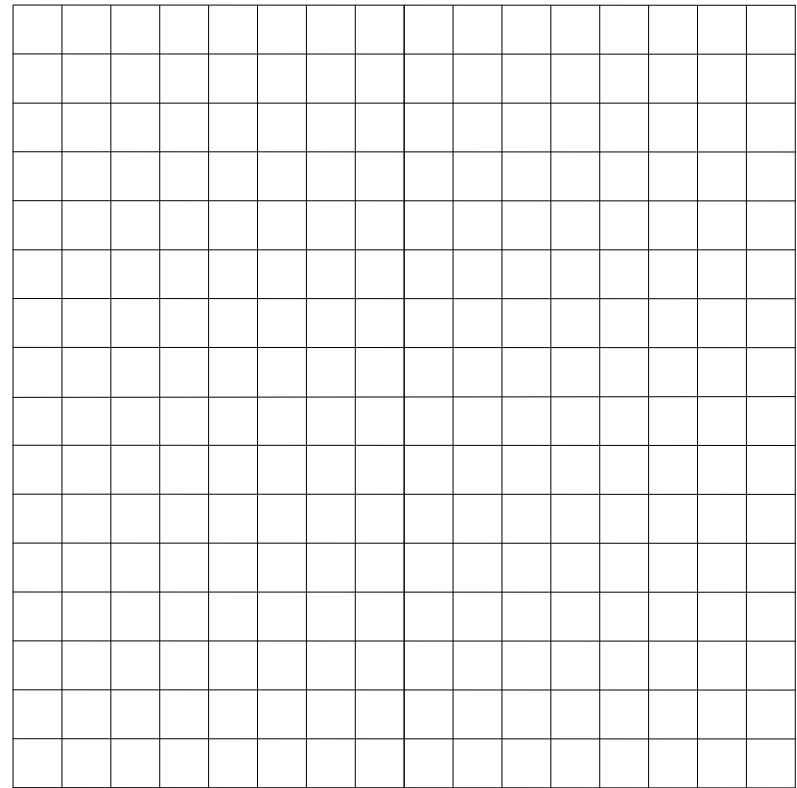
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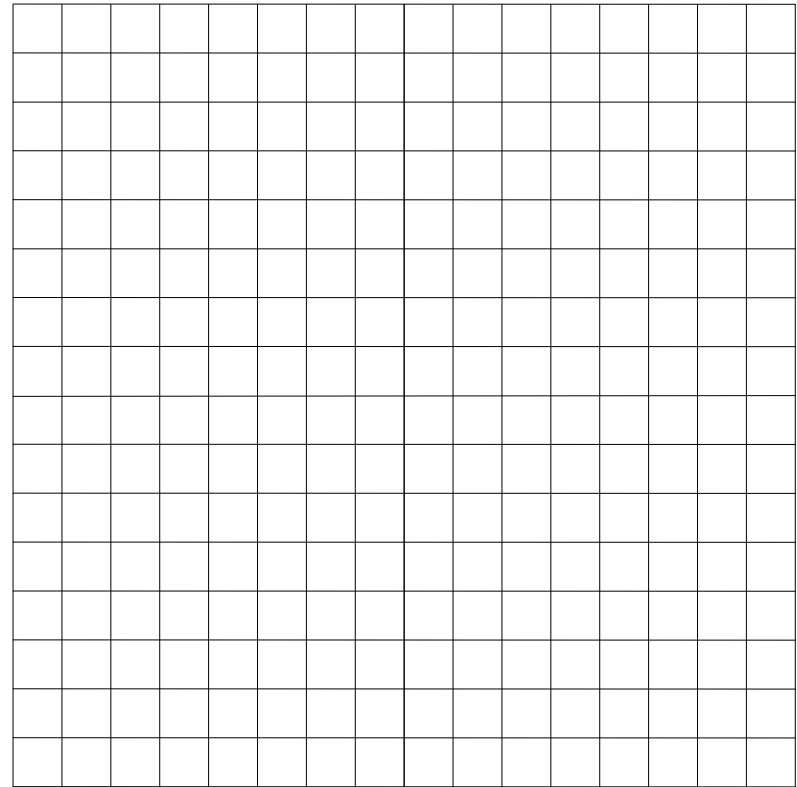
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8	64
12	96
16	128
20	160

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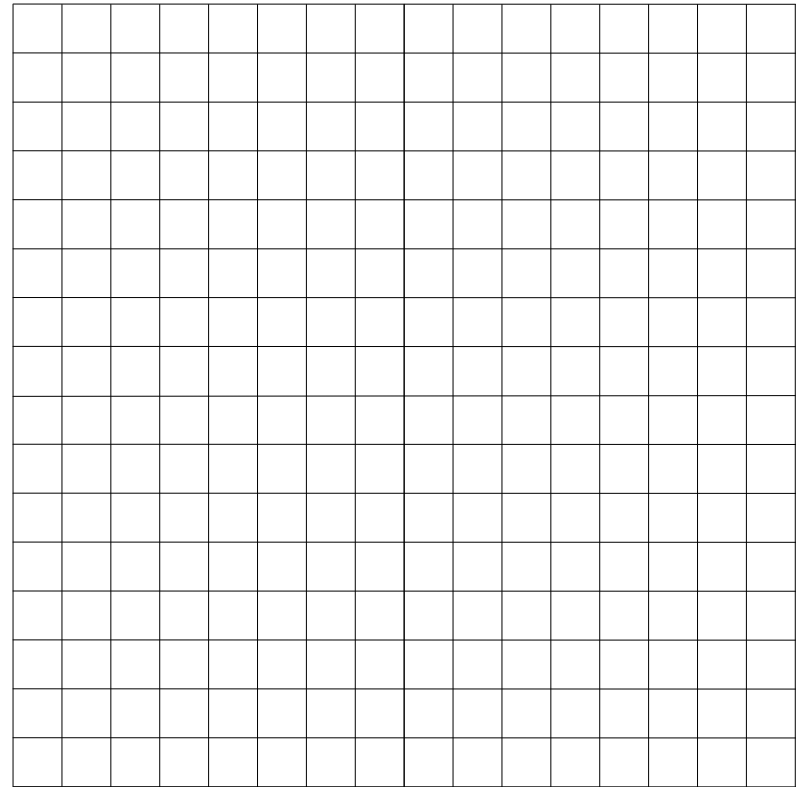
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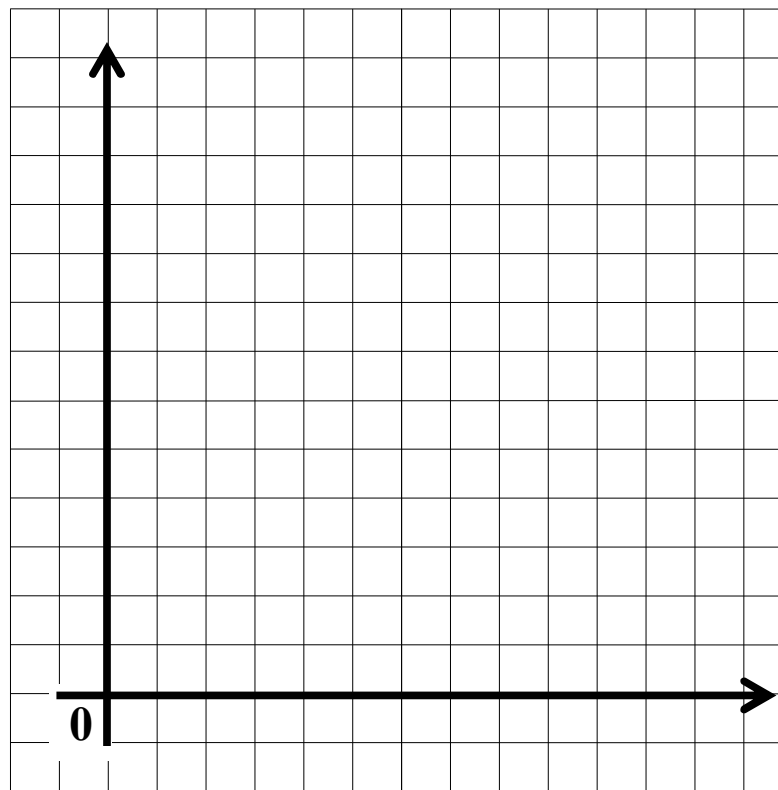
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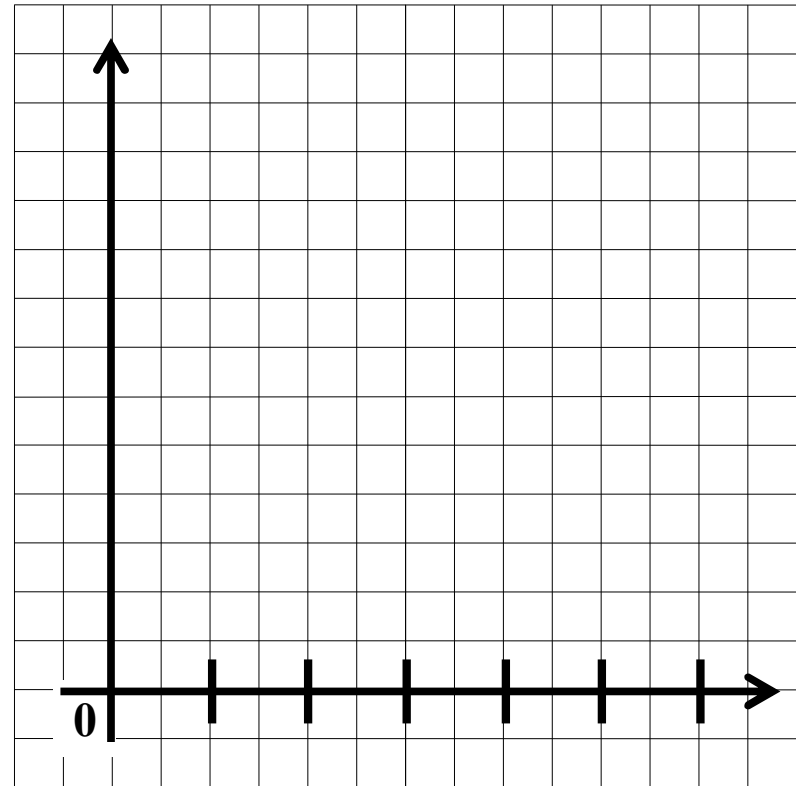
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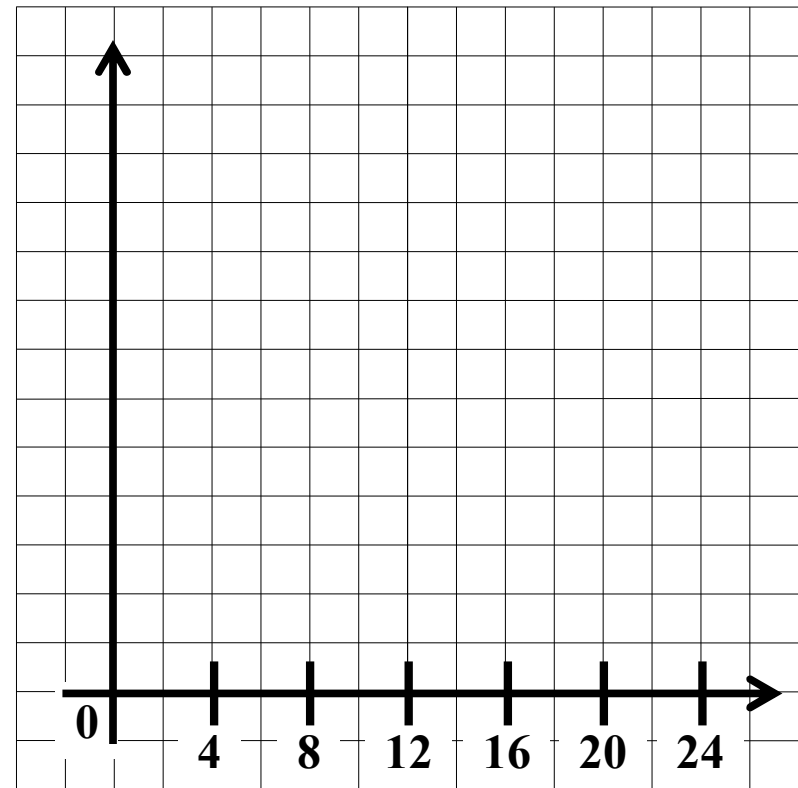
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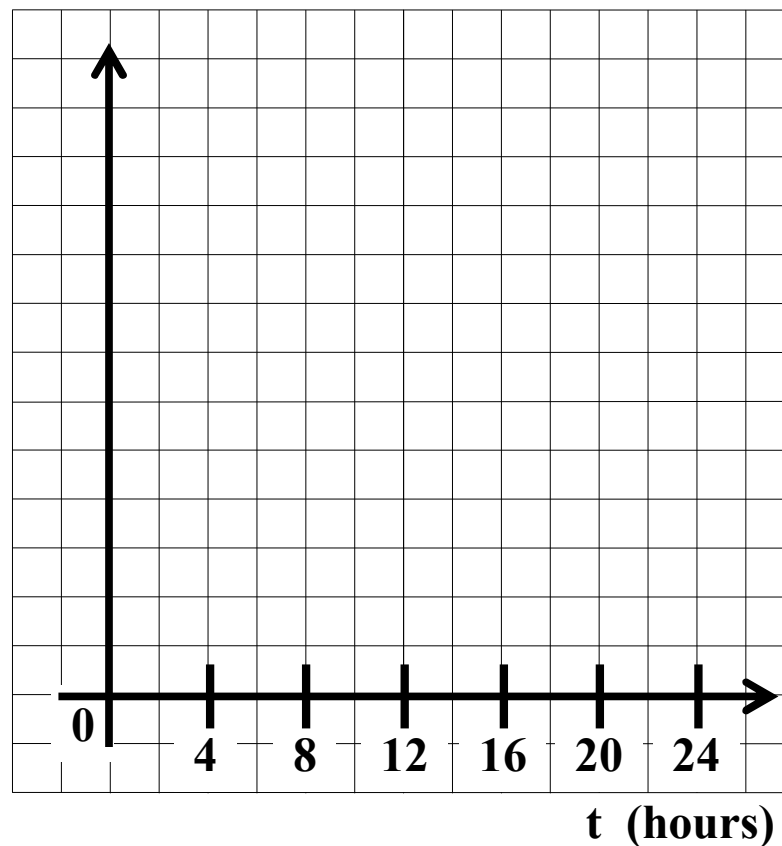
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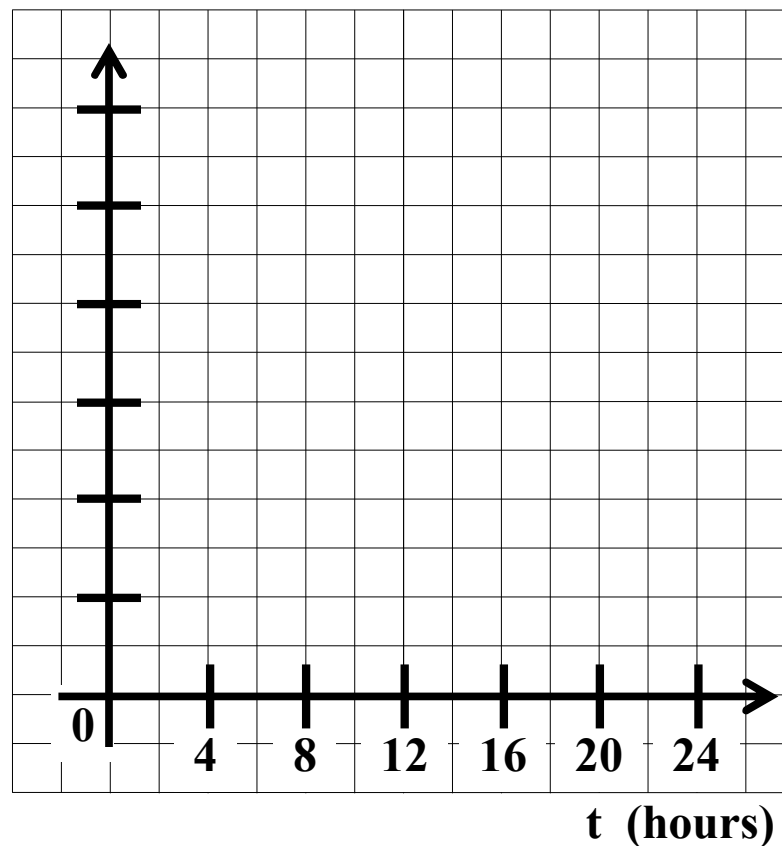
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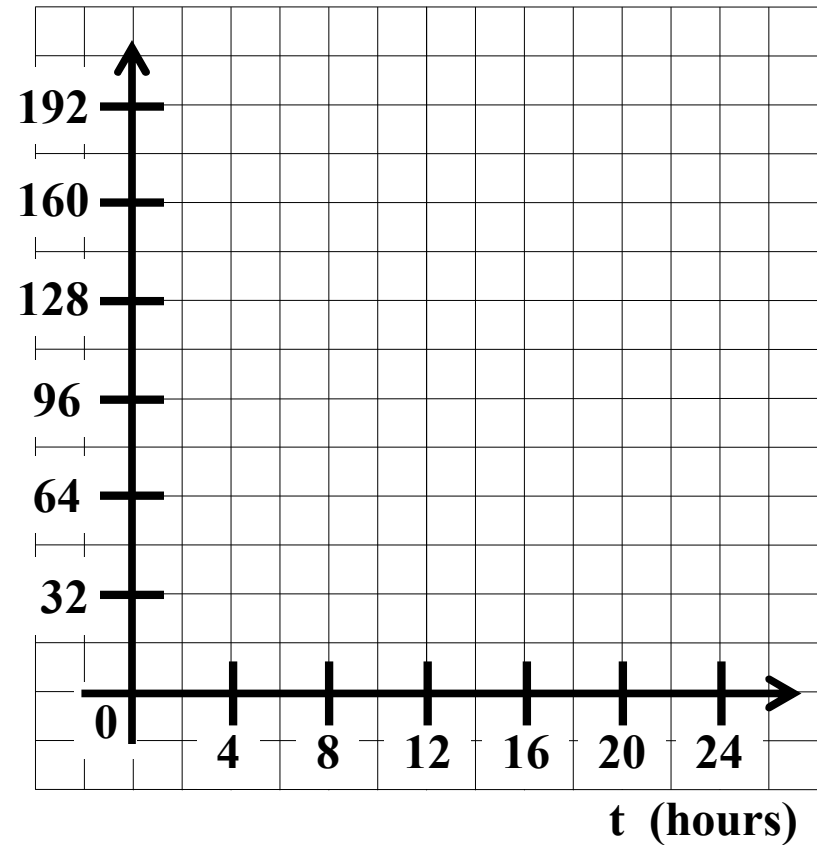
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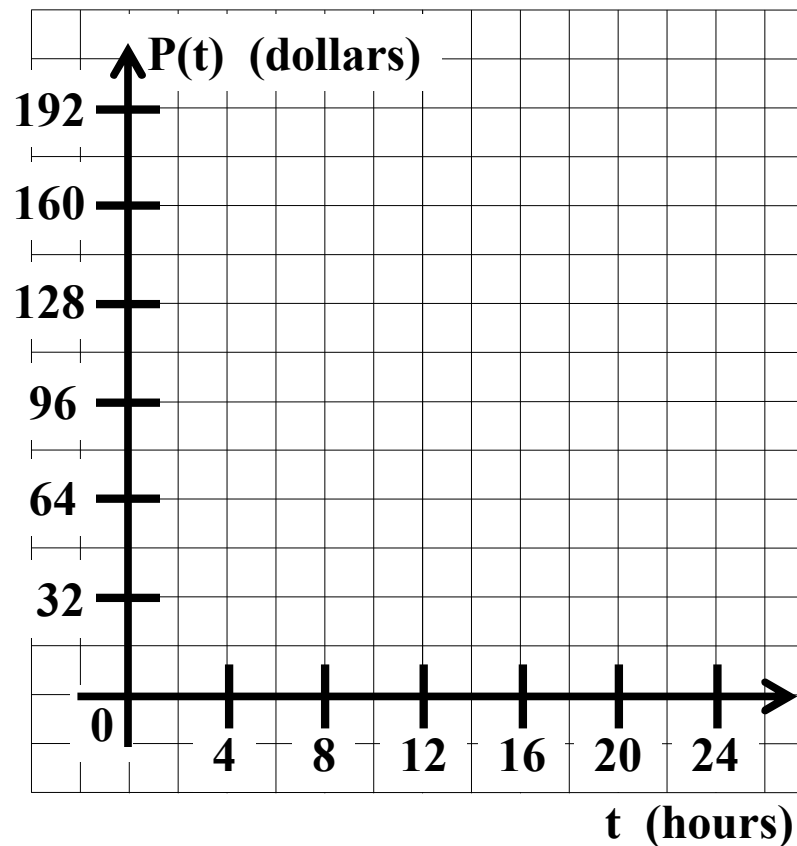
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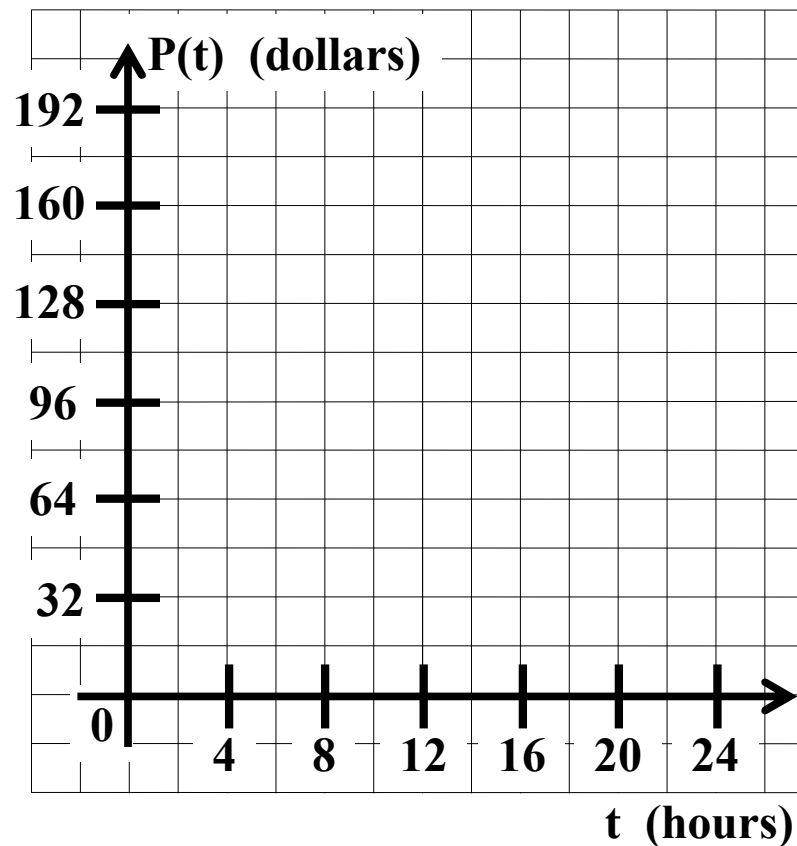
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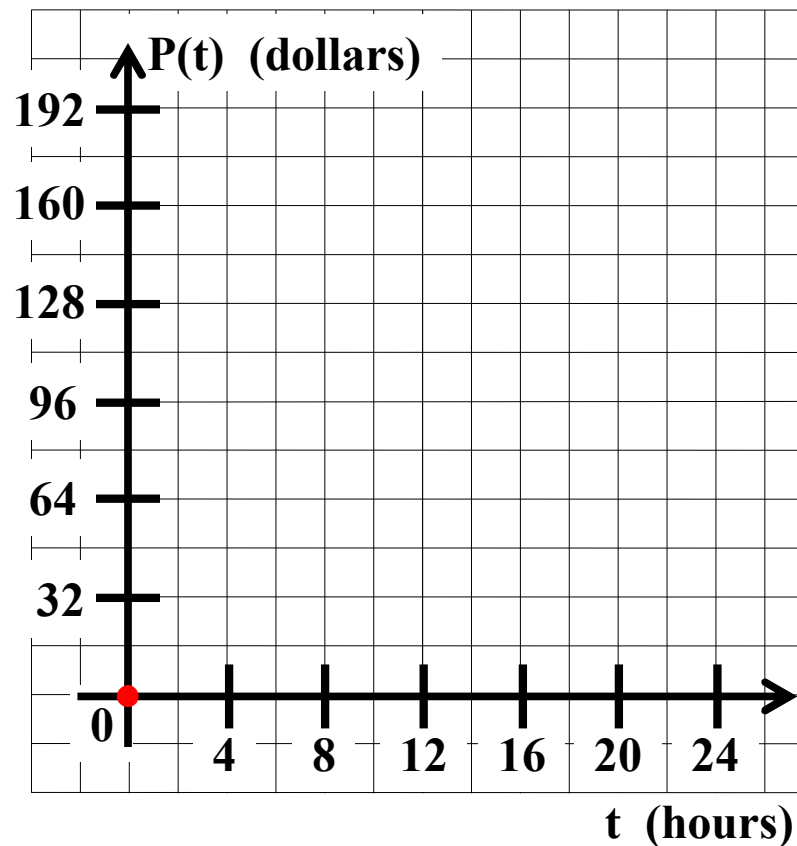
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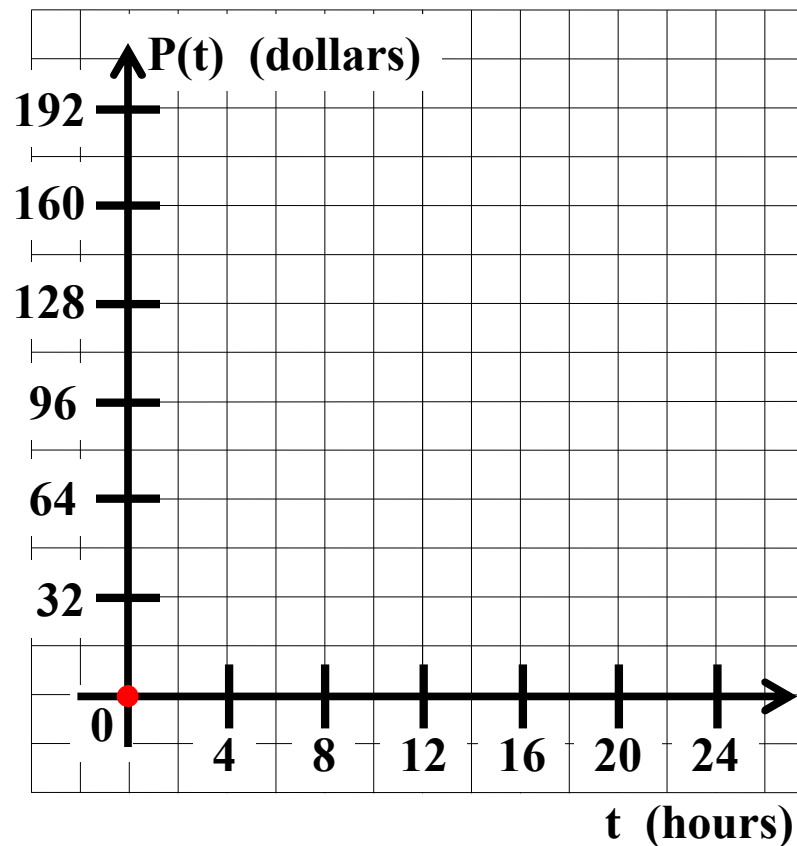
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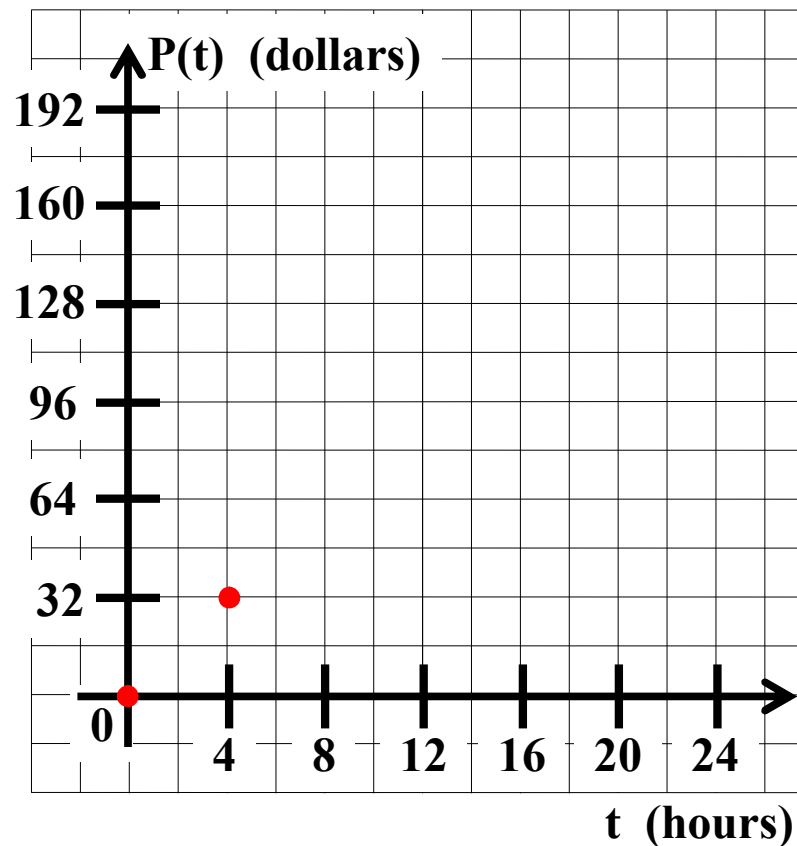
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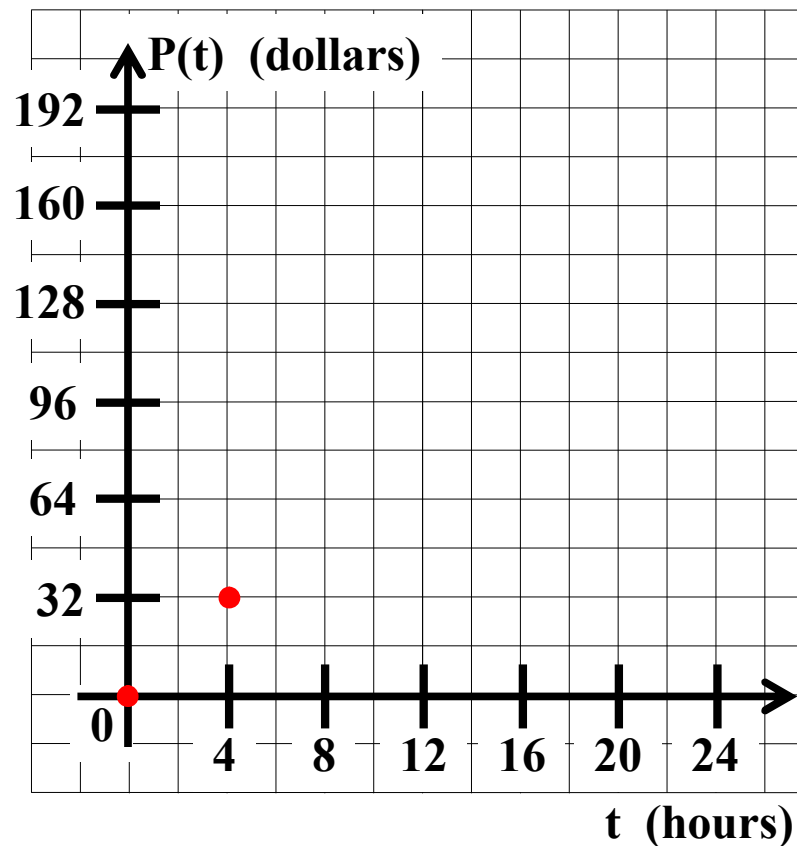
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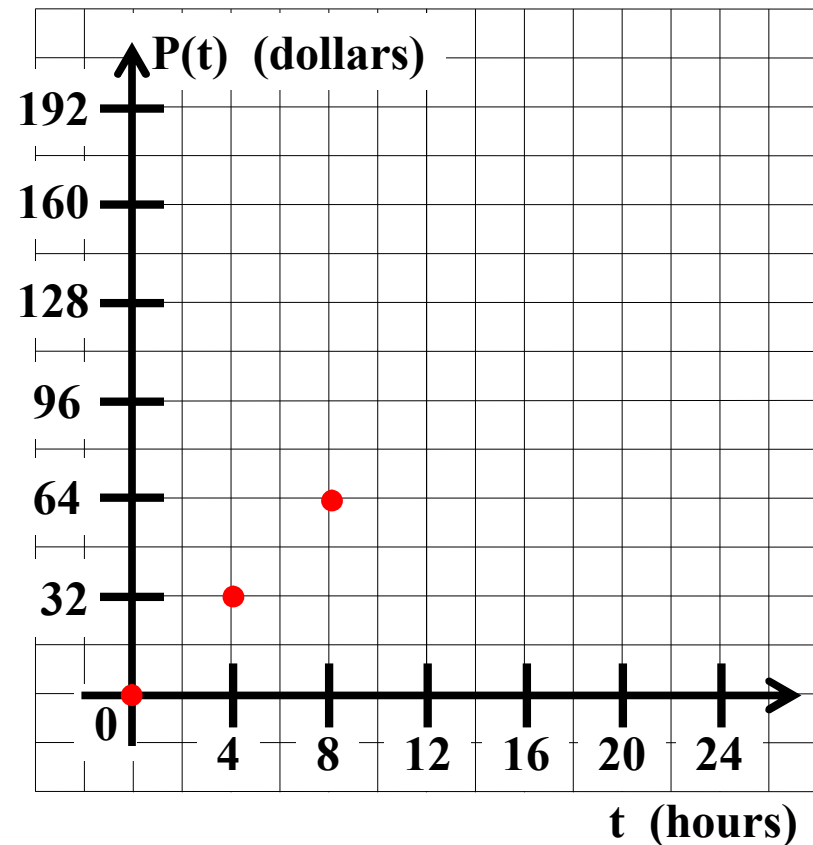
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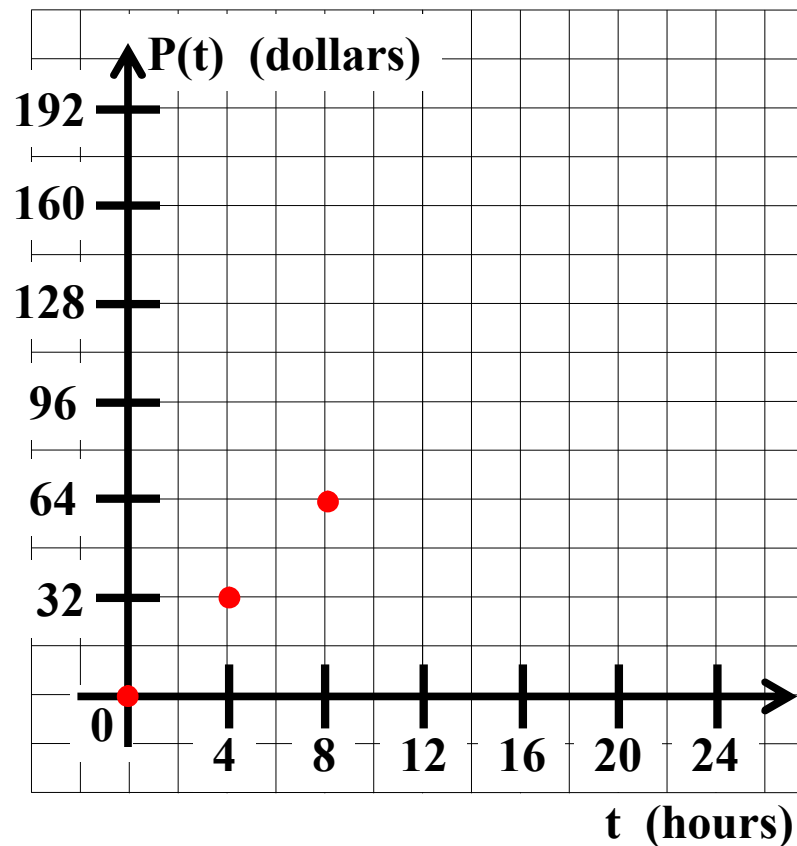
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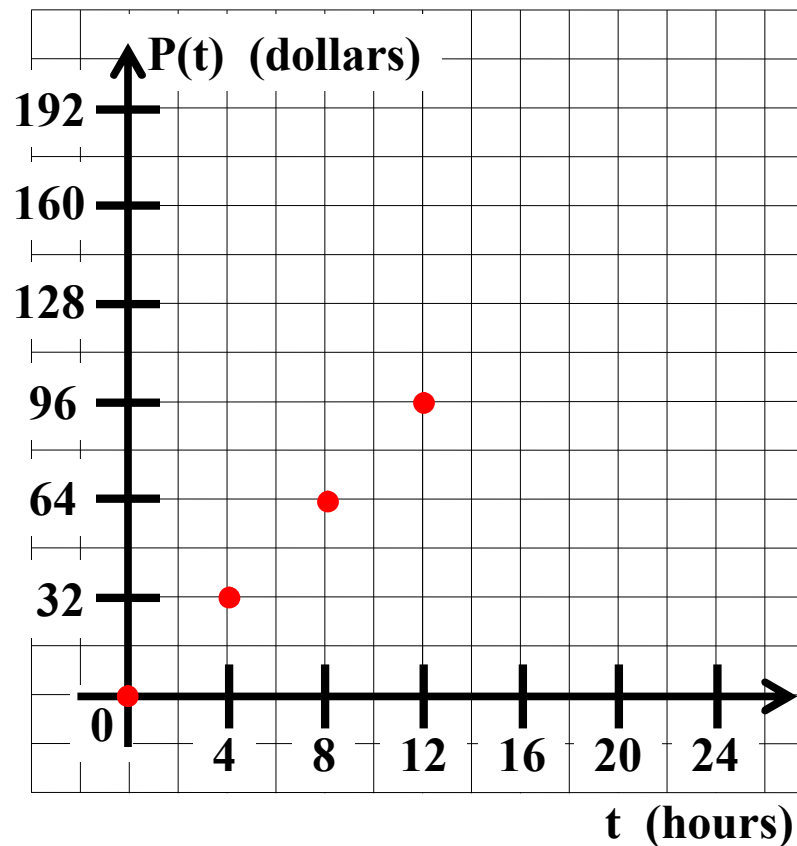
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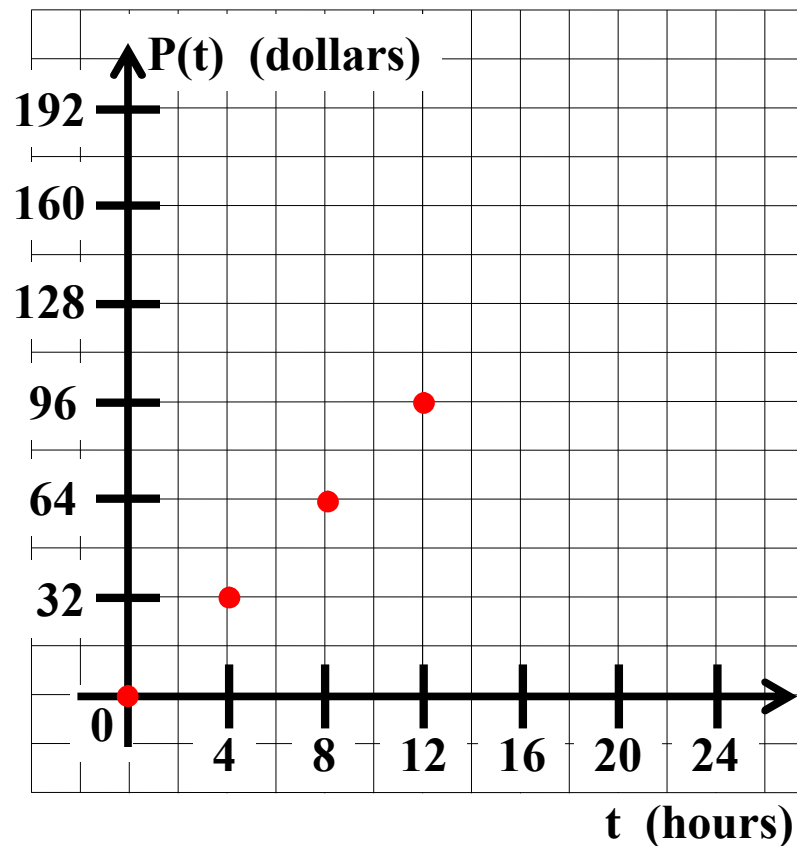
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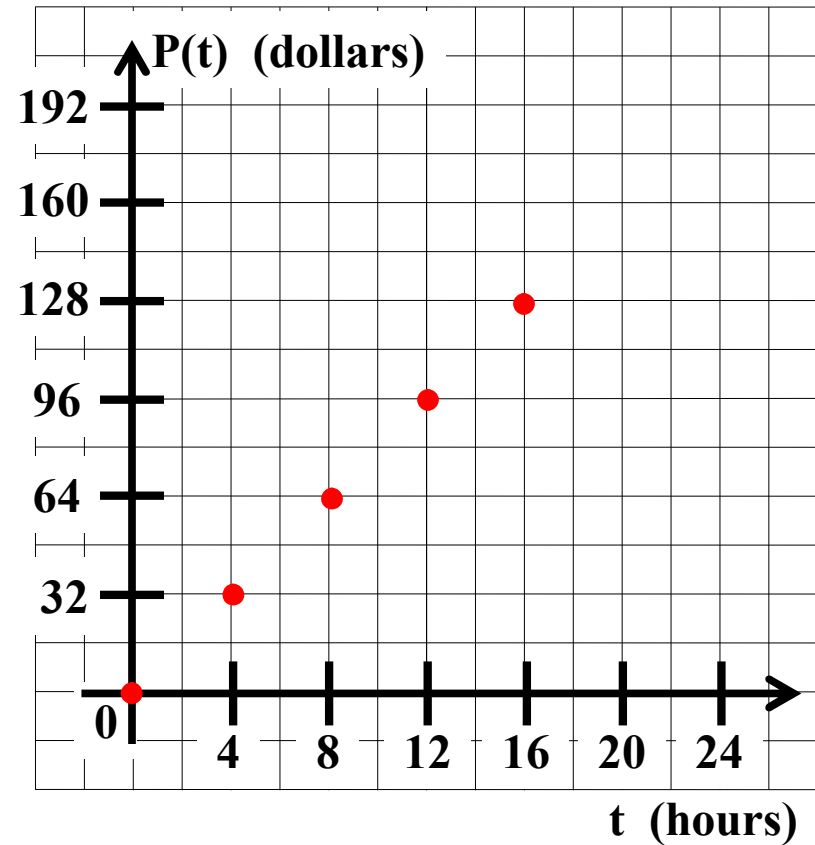
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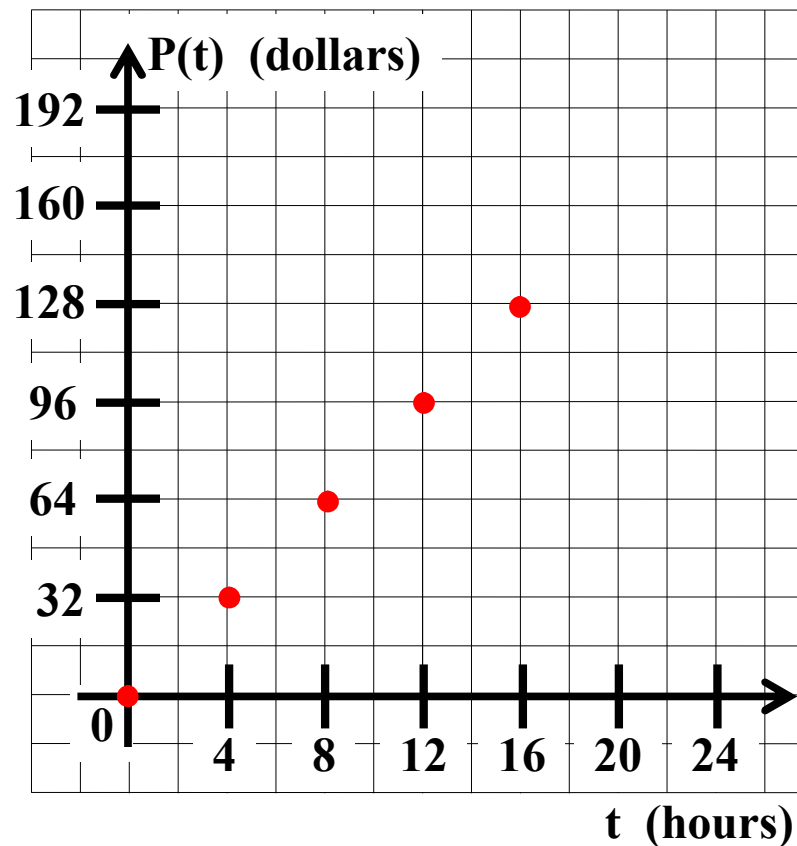
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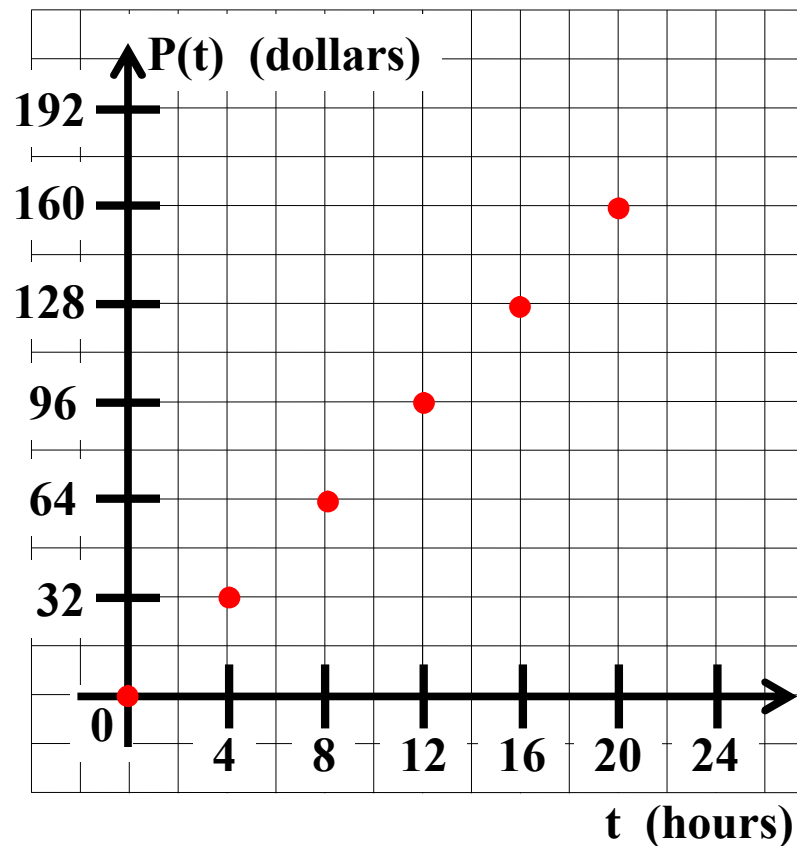
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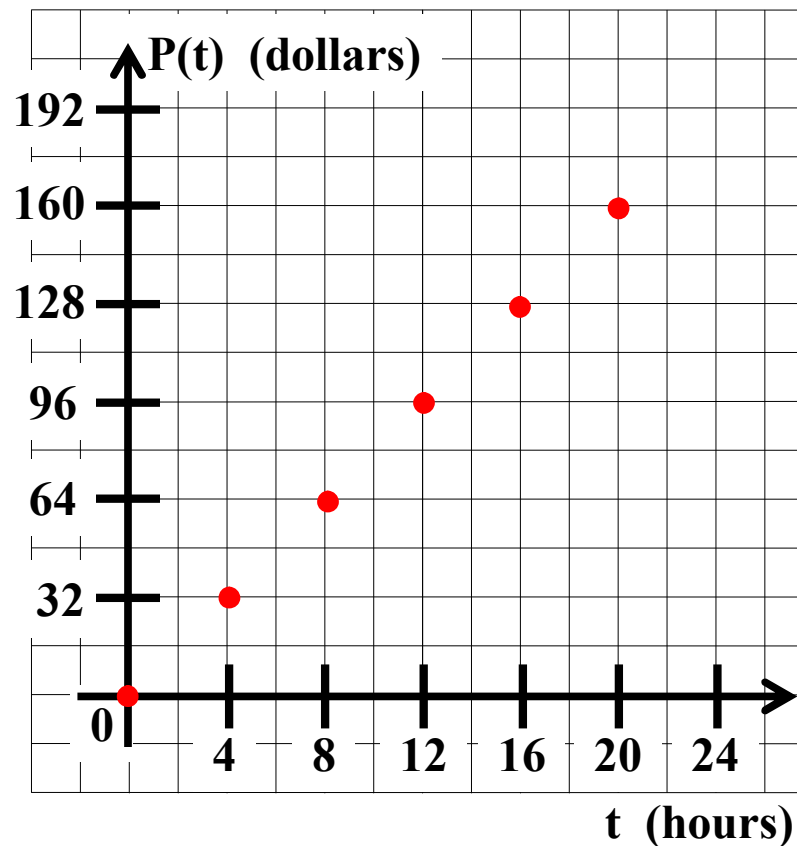
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t	$P(t)$
0	0
4	32
8	64
12	96
16	128
20	160

2. Graph function P .



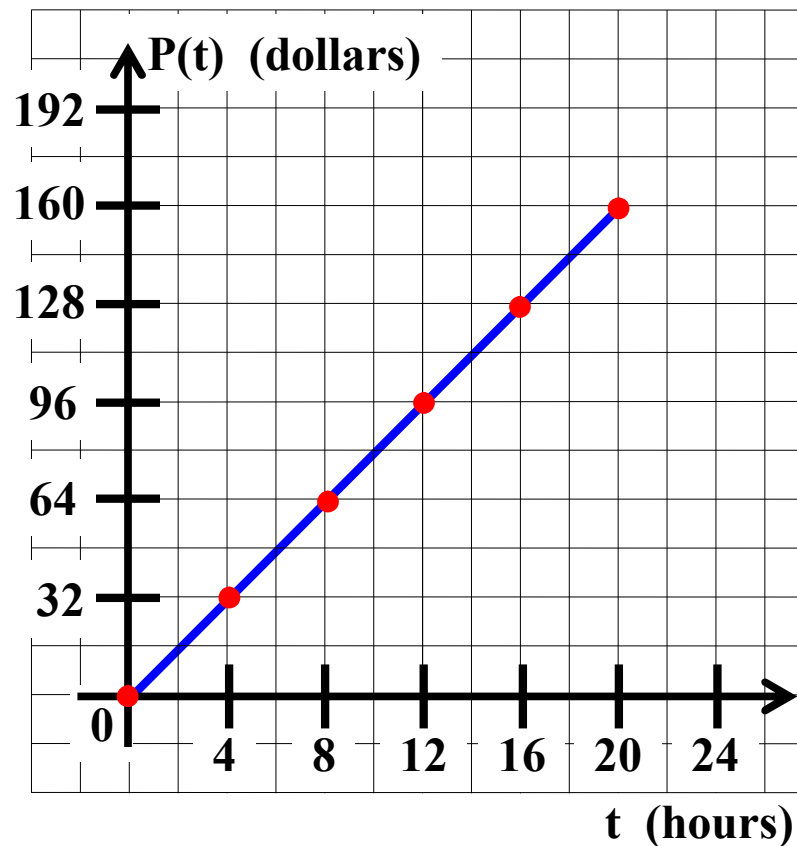
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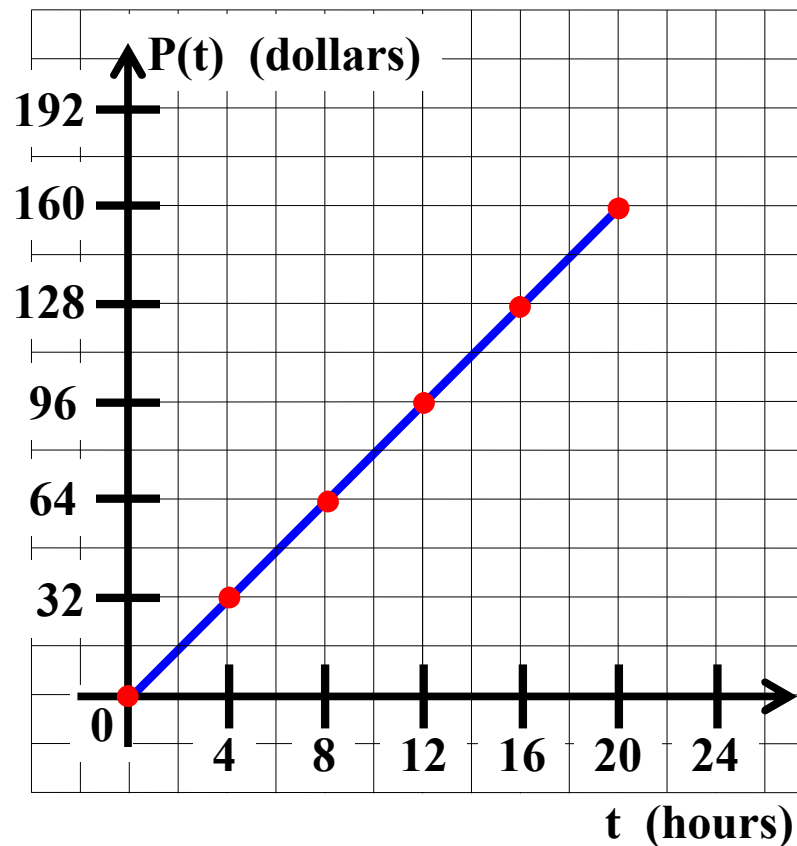
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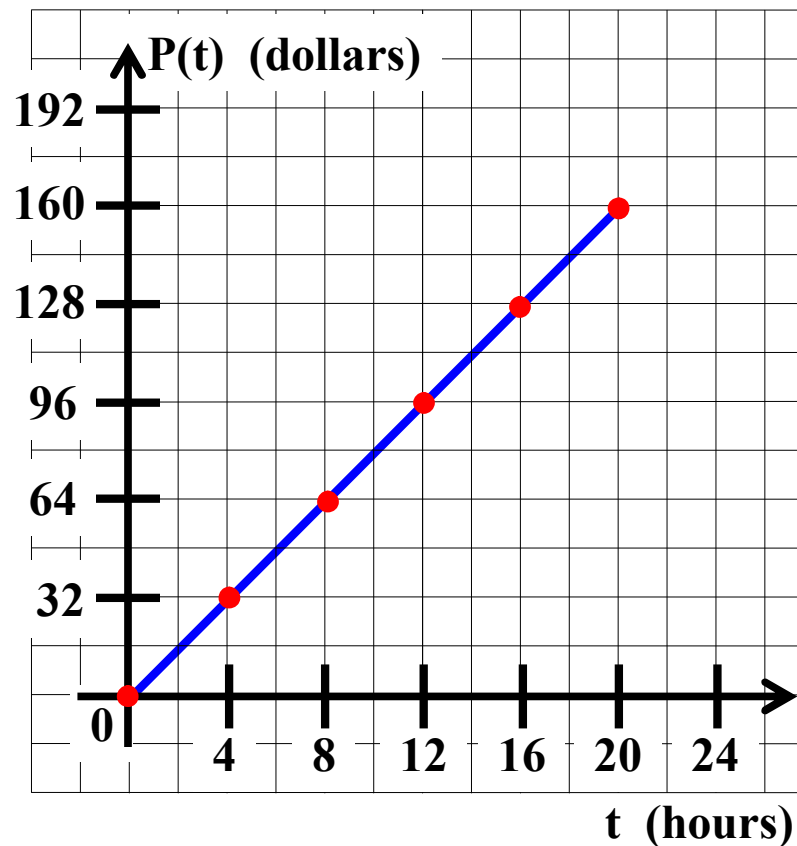
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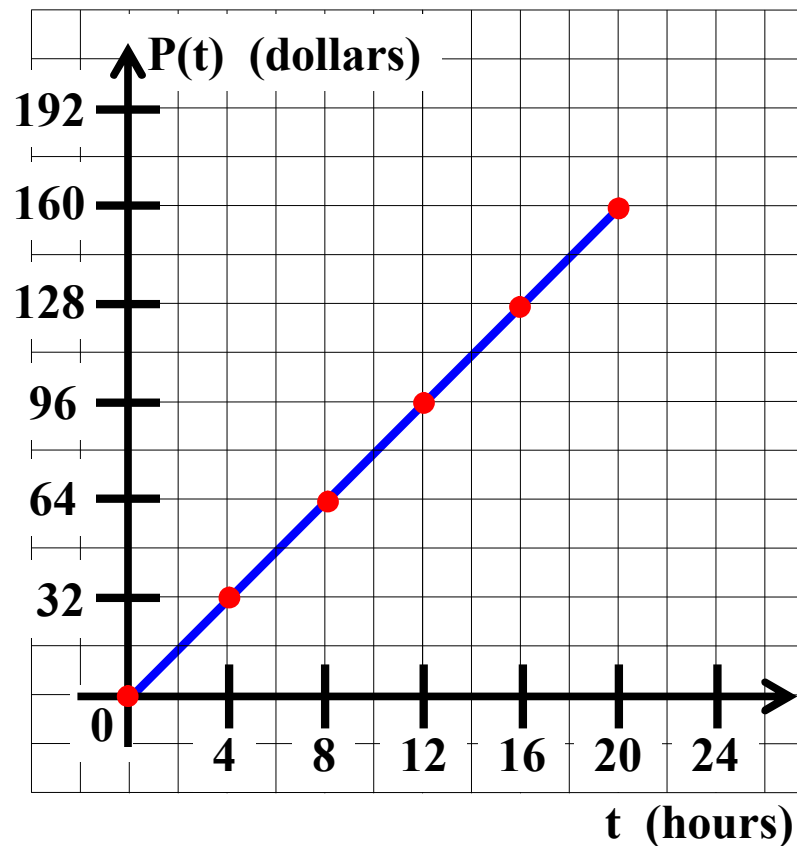
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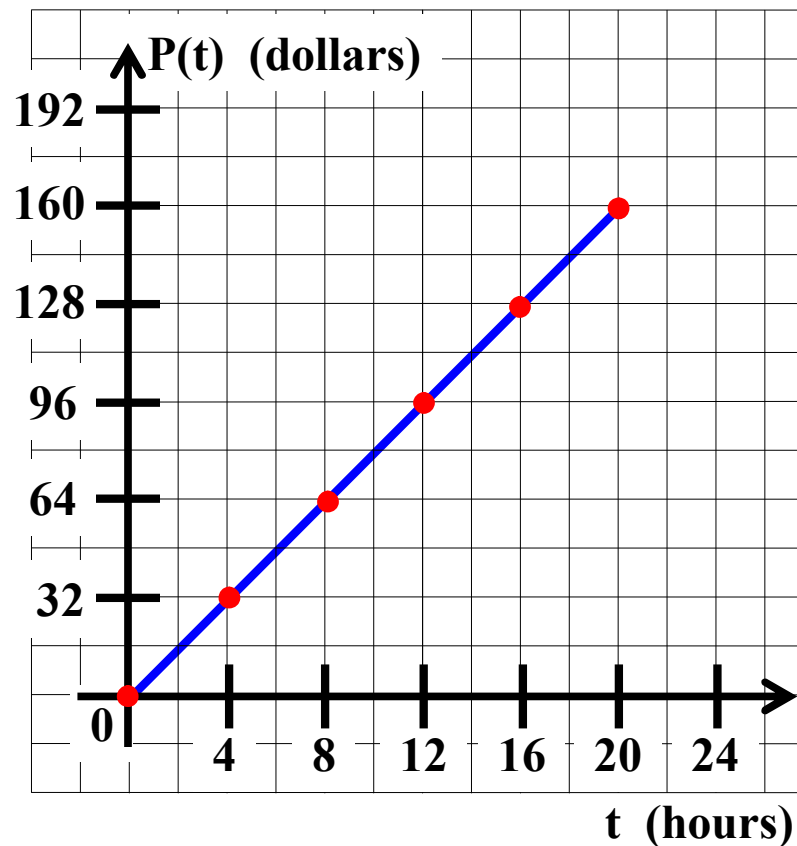
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$P(t) =$

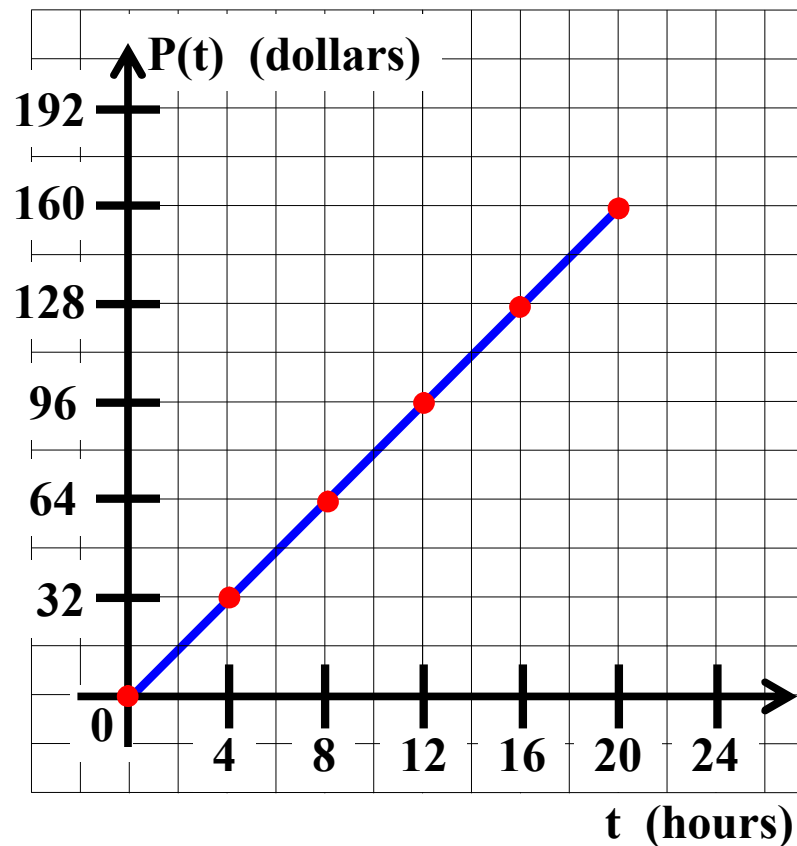
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$$P(t) = 8t$$

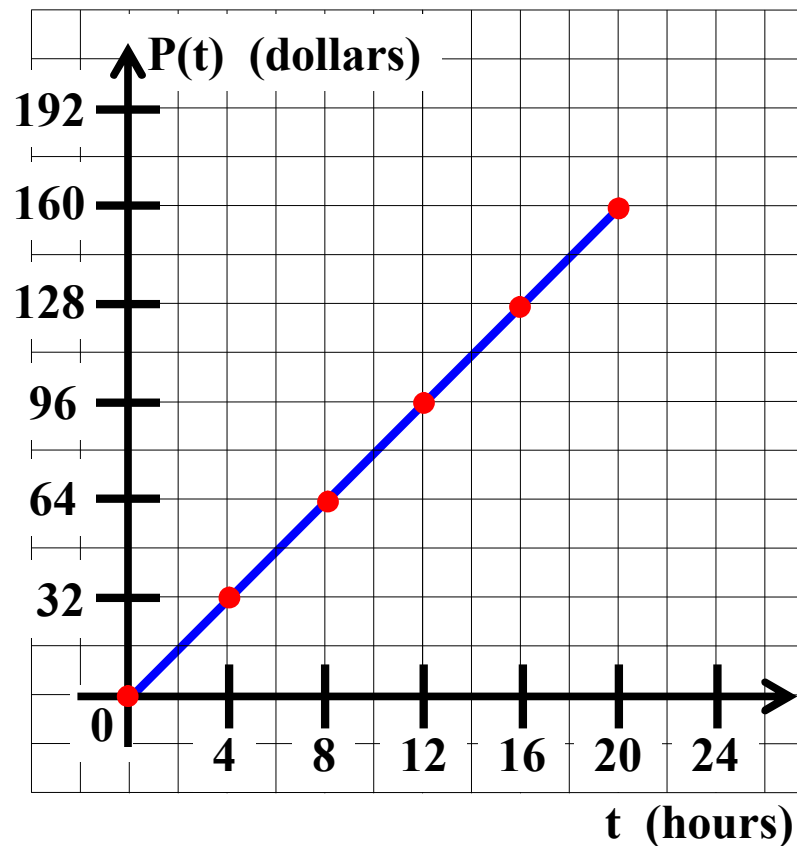
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\$8 per hour for t hours.

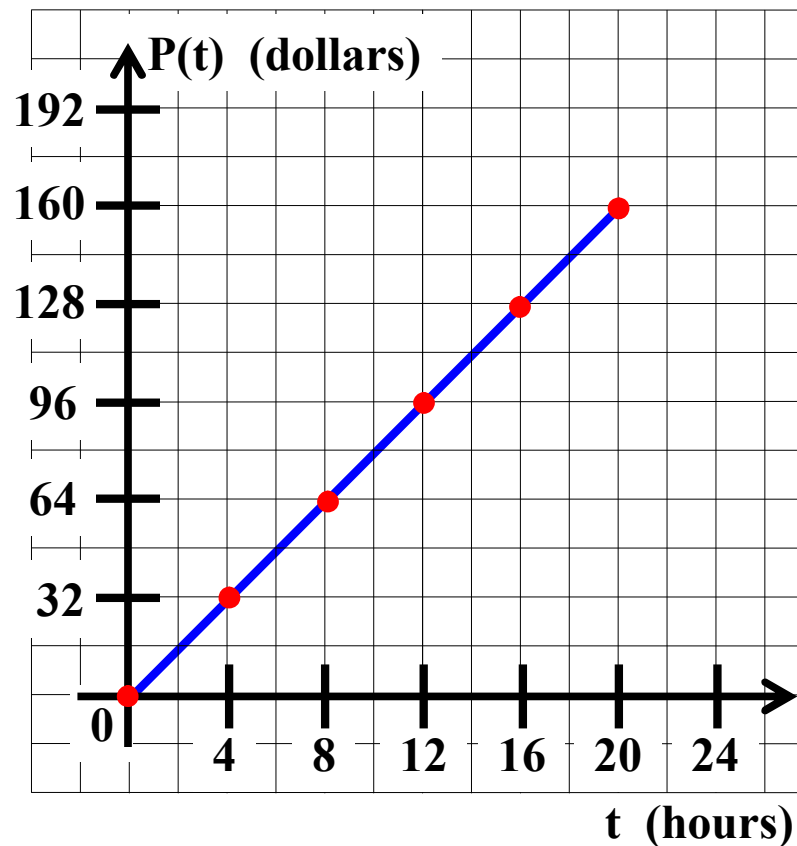
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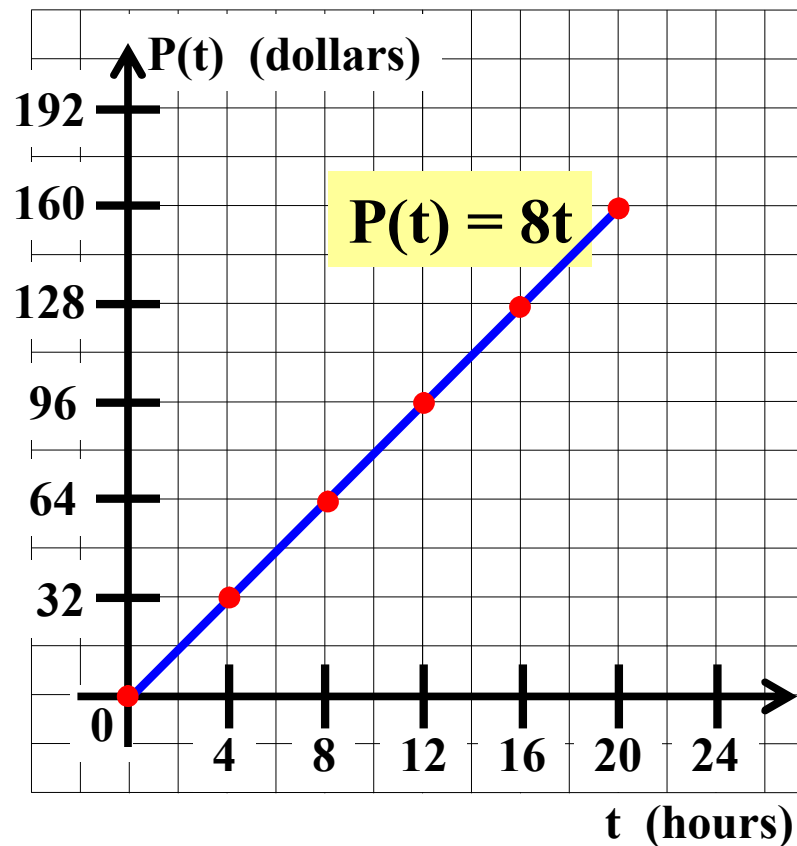
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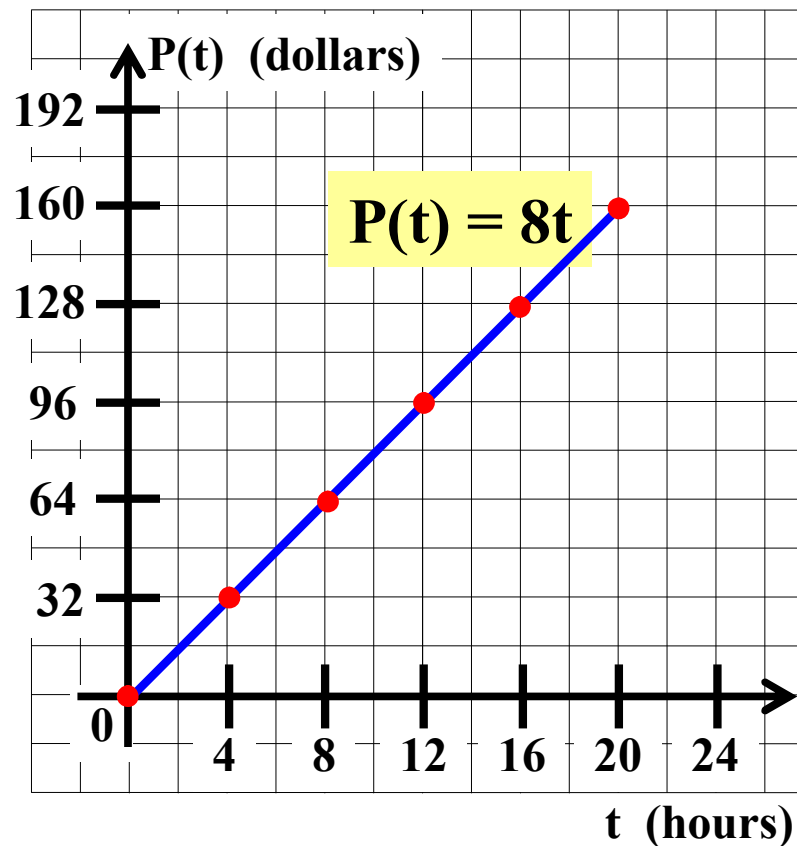
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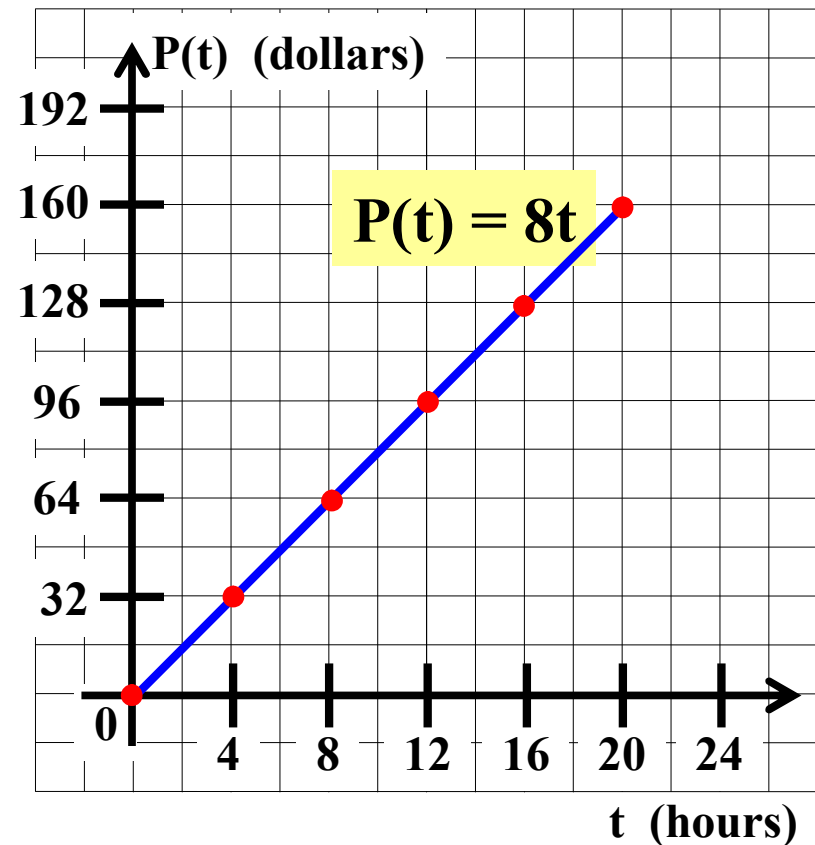
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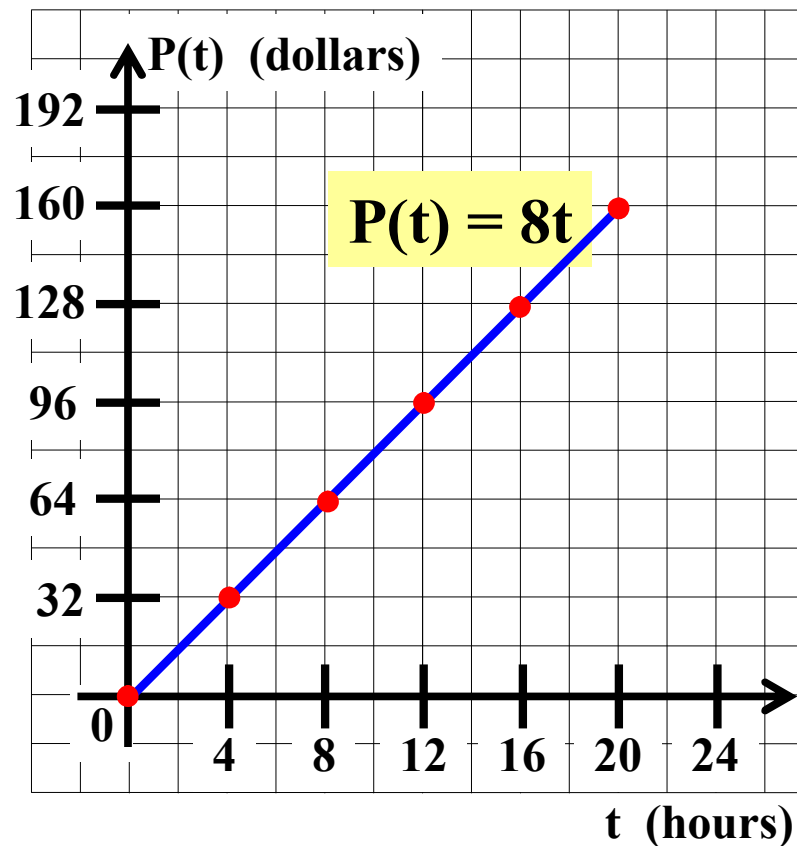
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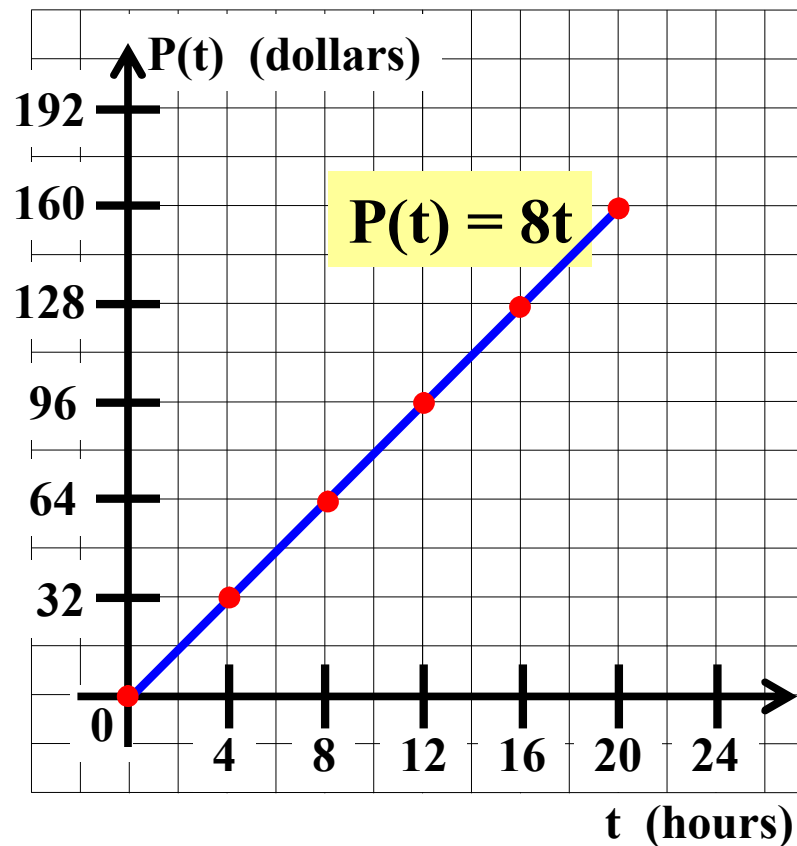
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$$0 \leq$$

Algebra I Class Worksheet #4 Unit 8

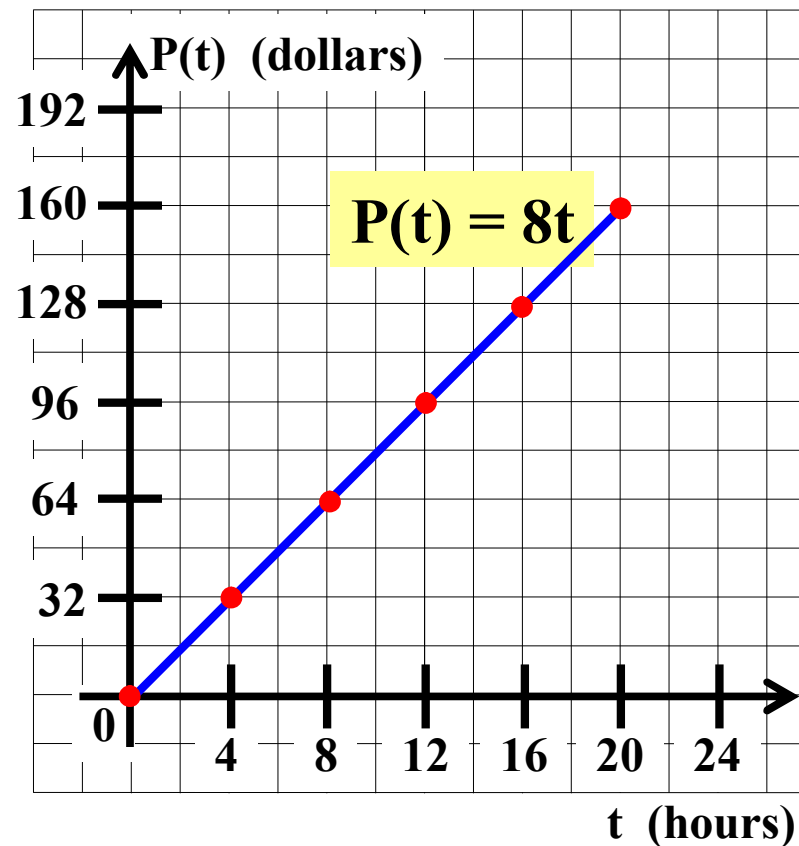
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$$0 \leq t$$

Algebra I Class Worksheet #4 Unit 8

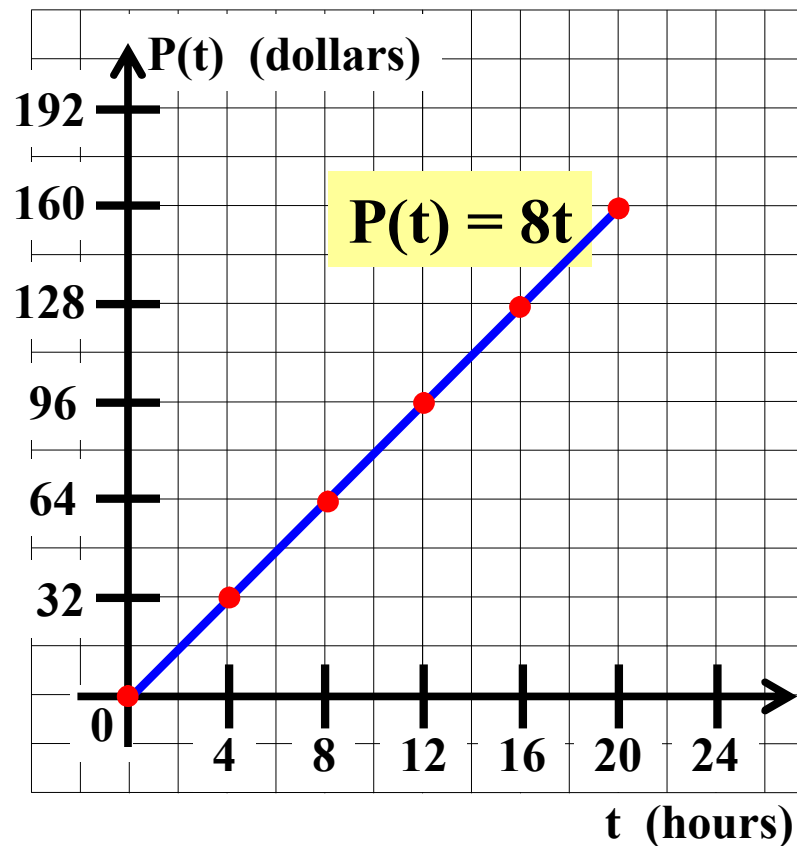
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$$0 \leq t \leq 20$$

Algebra I Class Worksheet #4 Unit 8

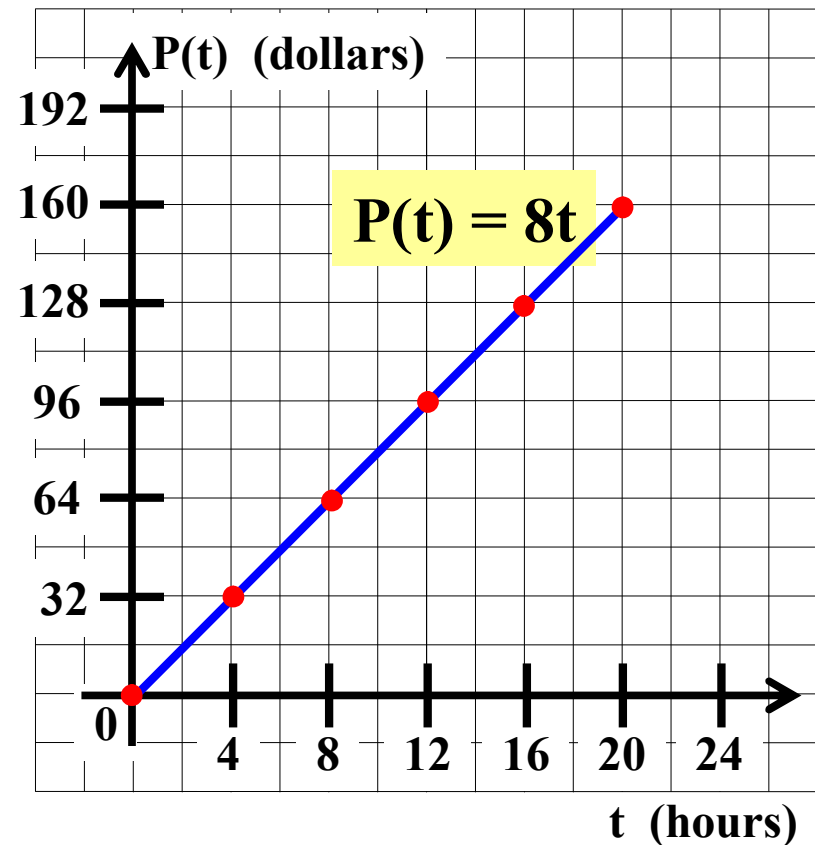
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16	128
20	160

4. Write an inequality to describe the domain of function P .

2. Graph function P .



$$0 \leq t \leq 20$$

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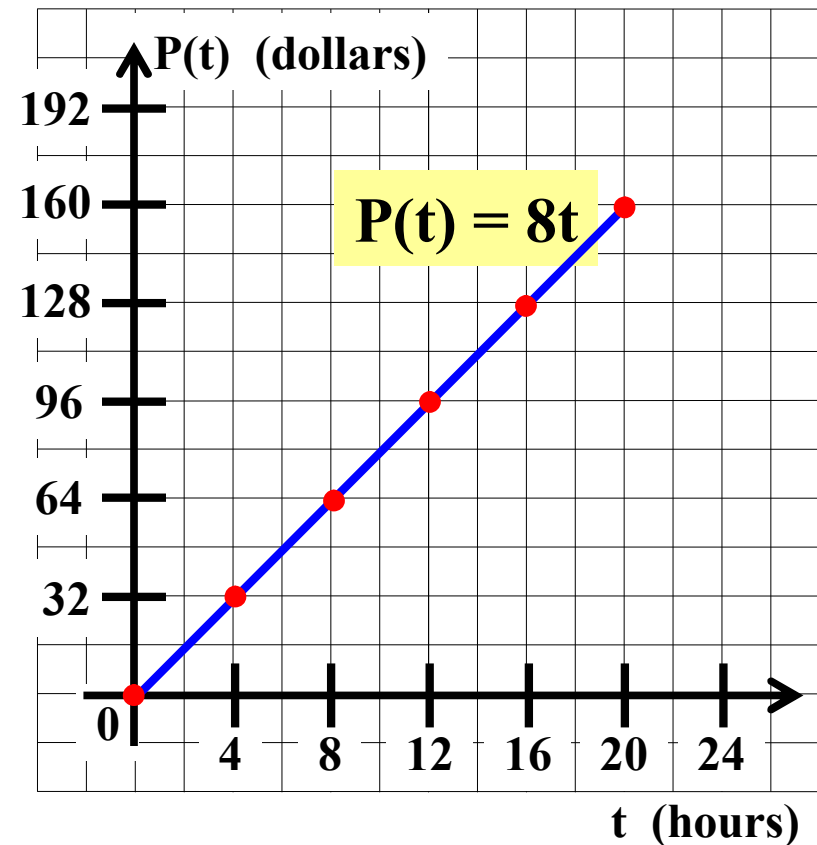
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t	$P(t)$
0	0
4	32
8	64
12	96
16	128
20	160

domain

$$0 \leq t \leq 20$$

2. Graph function P .



$$0 \leq t \leq 20$$

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Algebra I Class Worksheet #4 Unit 8

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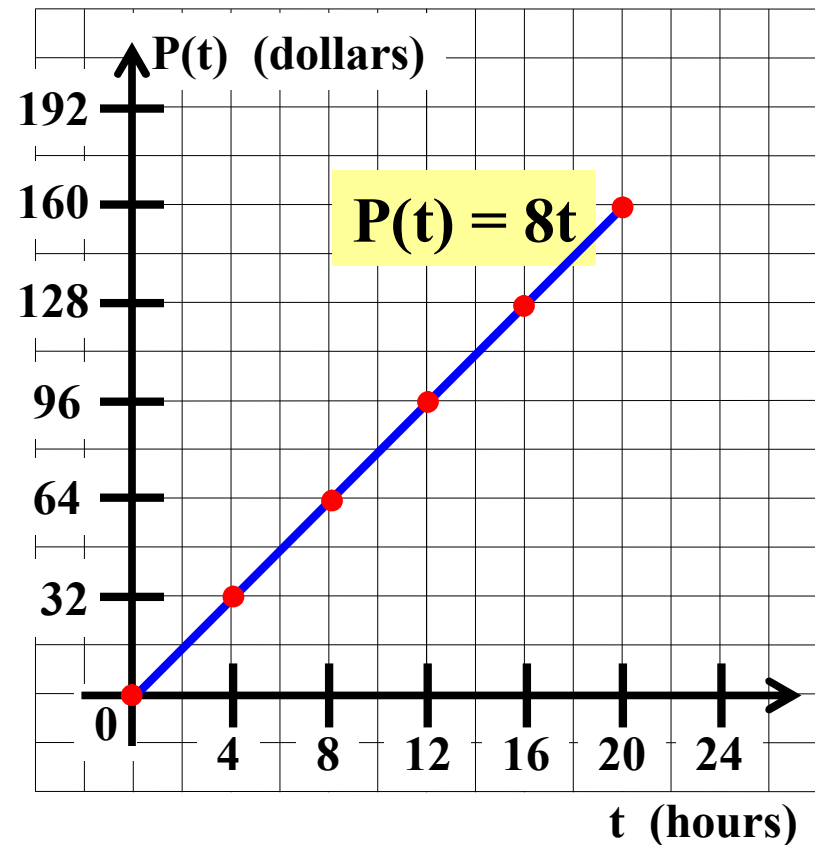
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2. Graph function P .



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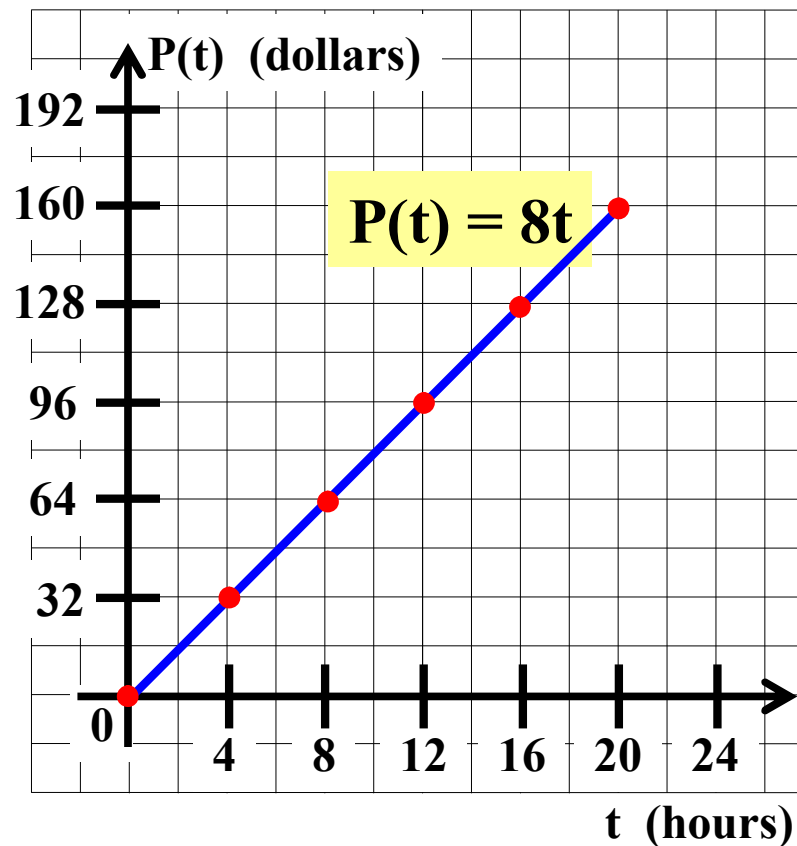
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domain

$$0 \leq t \leq 20$$

2. Graph function P .



5. Write an inequality to describe the range of function P .

Algebra I Class Worksheet #4 Unit 8

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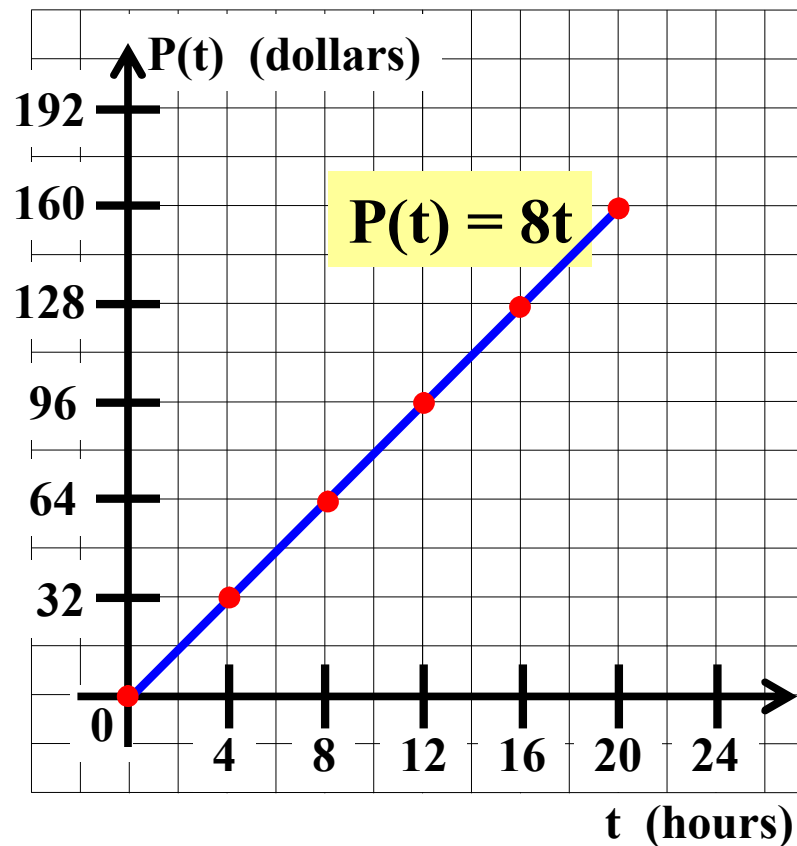
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domain

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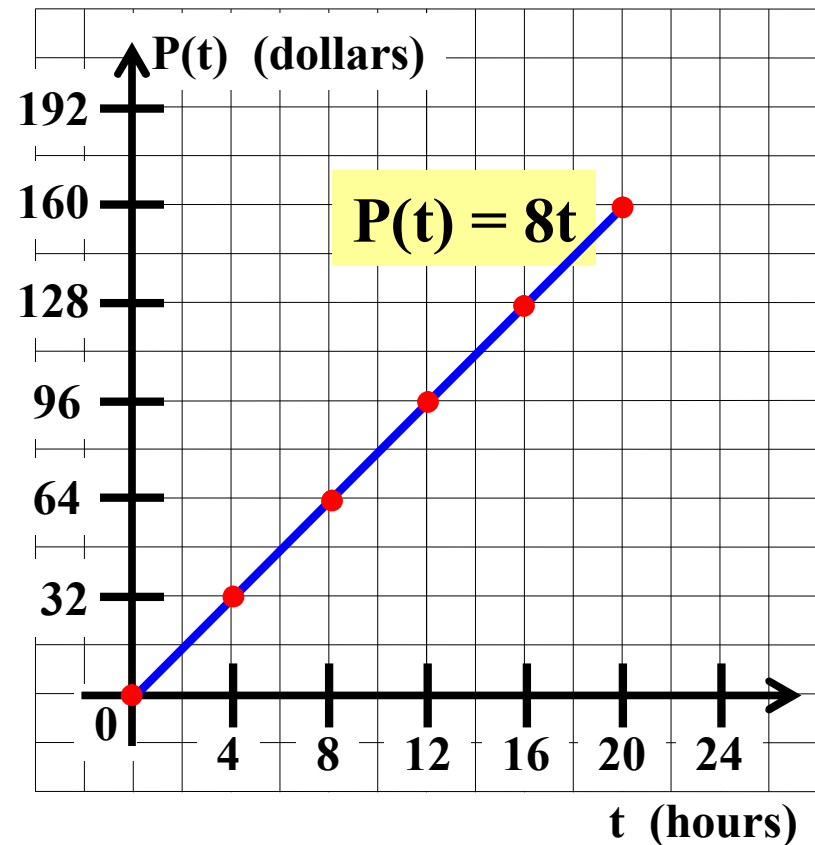
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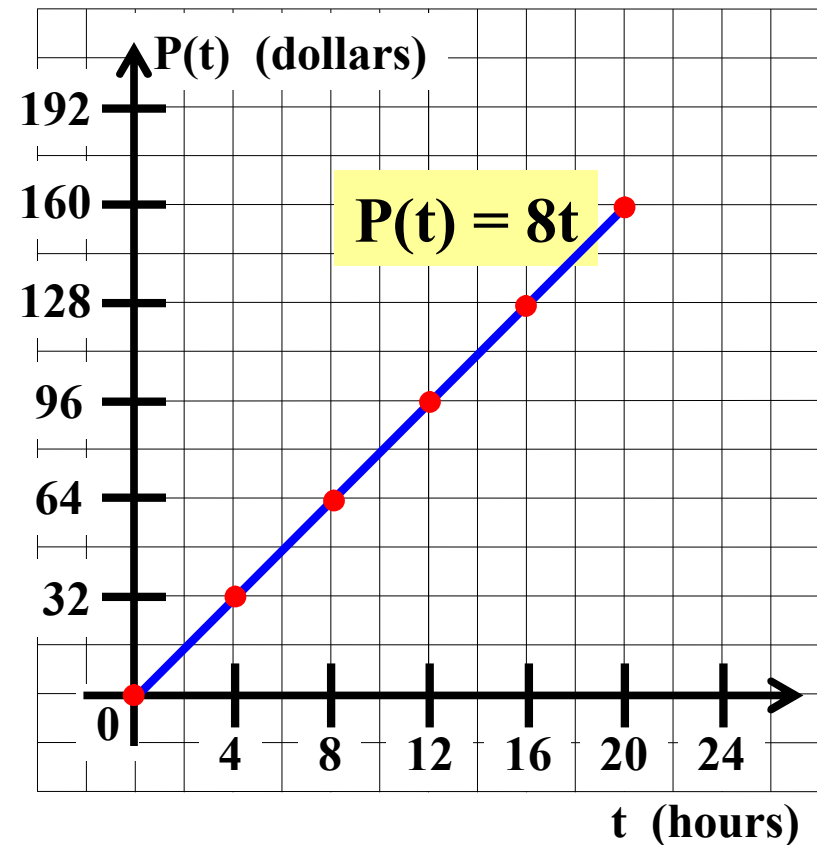
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0	0
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domain

$$0 \leq t \leq 20$$

2. Graph function P .



5. Write an inequality to describe the range of function P .

$$0 \leq$$

Algebra I Class Worksheet #4 Unit 8

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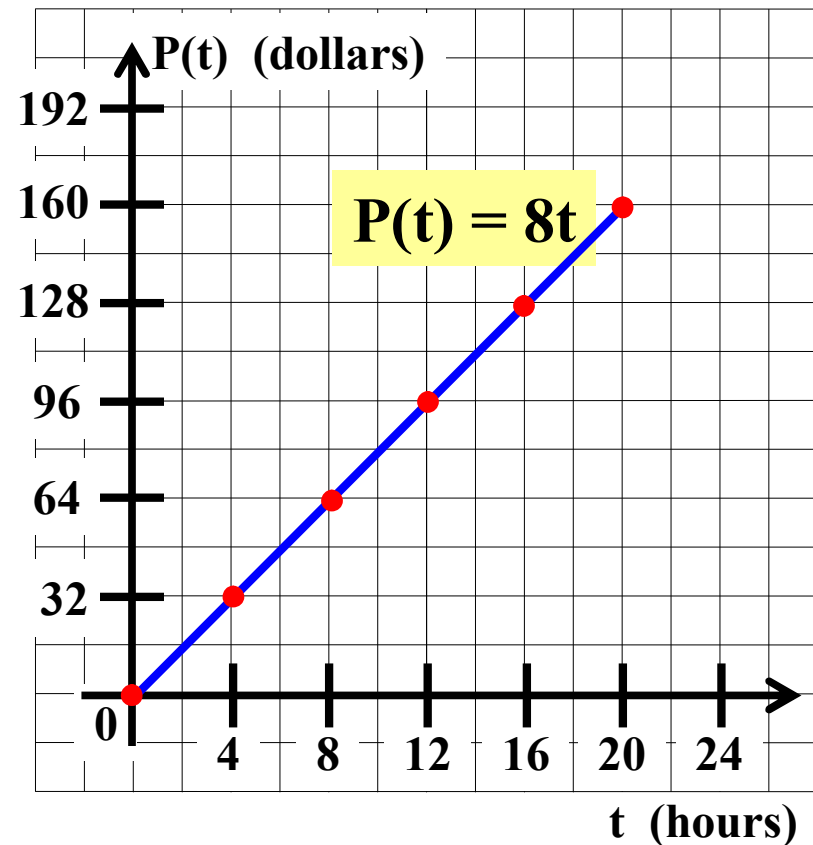
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t	$P(t)$
0	0
4	32
8	64
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20	160

domain

$$0 \leq t \leq 20$$

2. Graph function P .



5. Write an inequality to describe the range of function P .

$$0 \leq P(t)$$

Algebra I Class Worksheet #4 Unit 8

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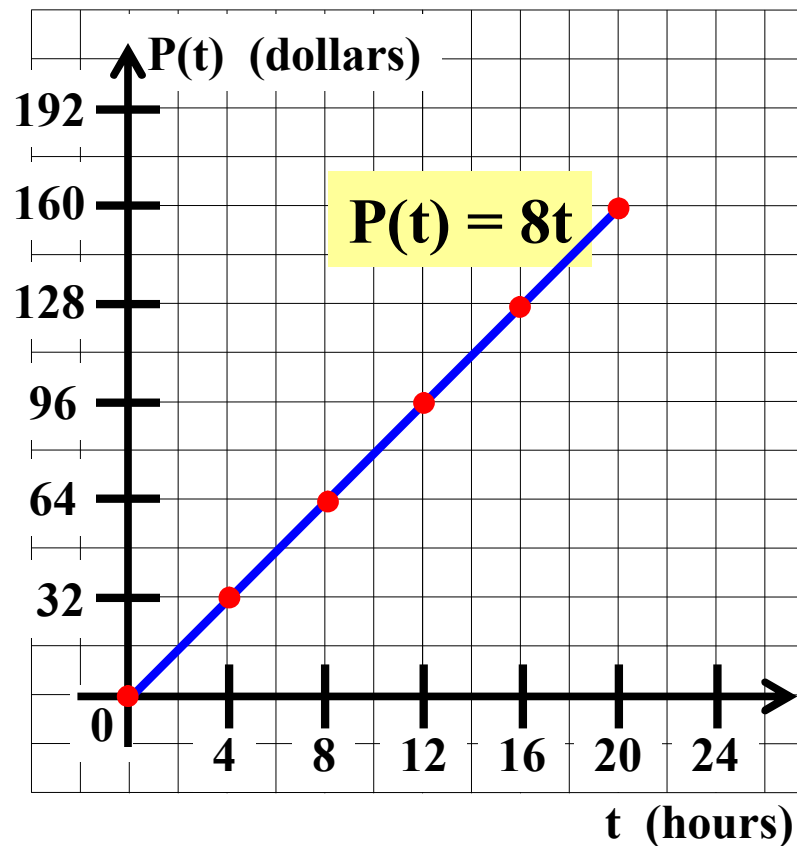
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t	$P(t)$
0	0
4	32
8	64
12	96
16	128
20	160

domain

$$0 \leq t \leq 20$$

2. Graph function P .



5. Write an inequality to describe the range of function P .

$$0 \leq P(t) \leq$$

Algebra I Class Worksheet #4 Unit 8

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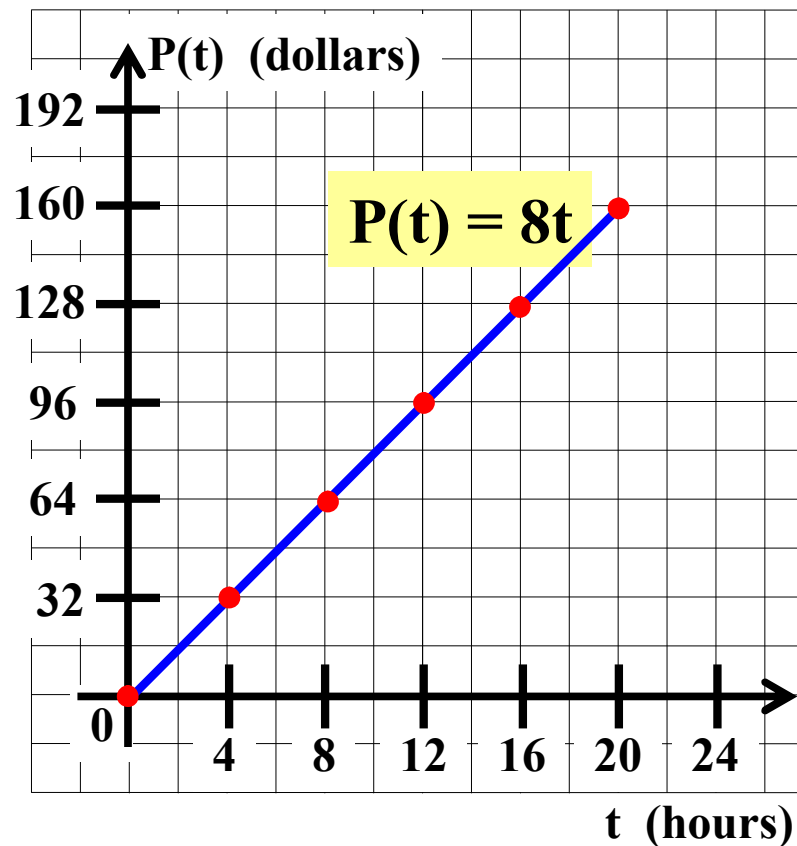
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0	0
4	32
8	64
12	96
16	128
20	160

domain

$$0 \leq t \leq 20$$

2. Graph function P .



5. Write an inequality to describe the range of function P .

$$0 \leq P(t) \leq 160$$

Algebra I Class Worksheet #4 Unit 8

Tom has a part-time job. He can work up to 20 hours a week. He gets paid \$8.00 per hour. Let t represent the number of hours he works. Let $P(t)$ represent his total pay.

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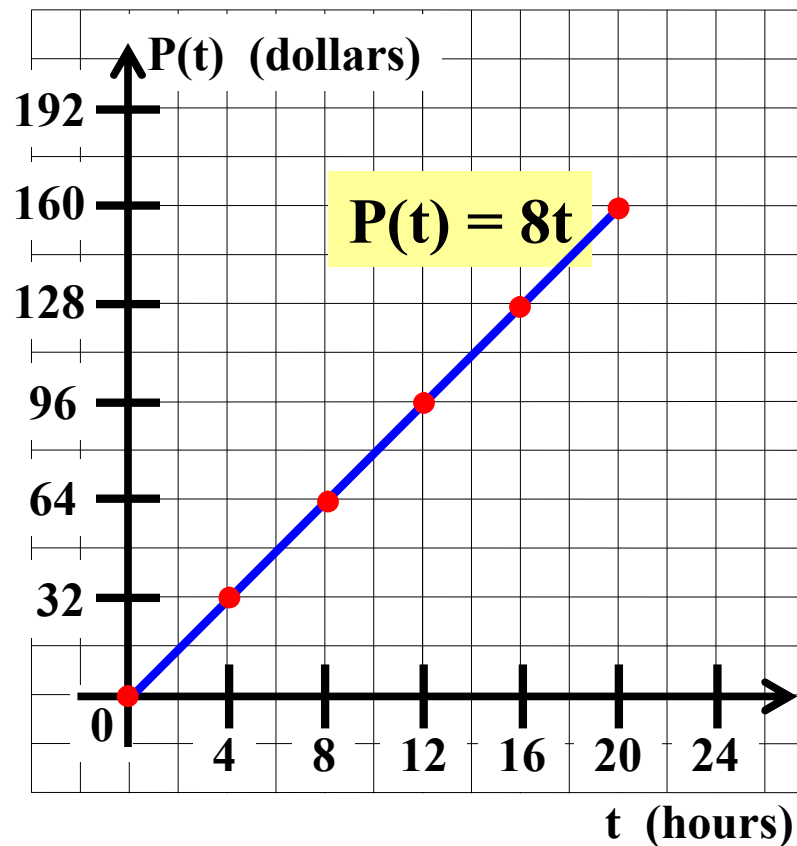
domain

$$0 \leq t \leq 20$$

range

$$0 \leq P(t) \leq 160$$

2. Graph function P .



5. Write an inequality to describe the range of function P .

$$0 \leq P(t) \leq 160$$

Algebra I Class Worksheet #4 Unit 8

Tom has a part-time job. He can work up to 20 hours a week. He gets paid \$8.00 per hour. Let t represent the number of hours he works. Let $P(t)$ represent his total pay.

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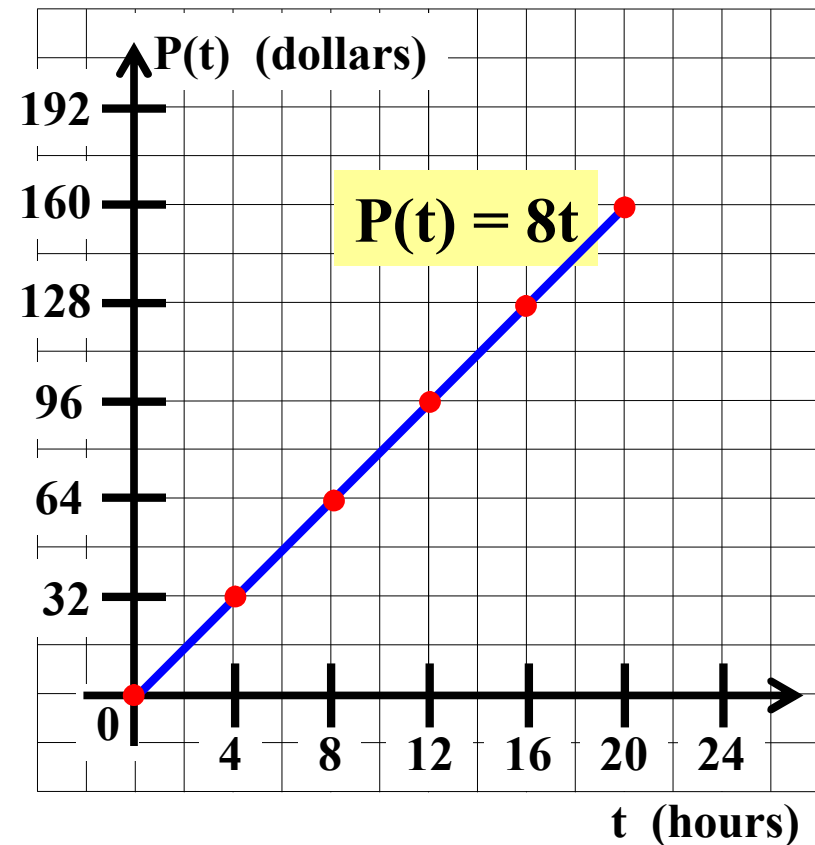
domain

$$0 \leq t \leq 20$$

range

$$0 \leq P(t) \leq 160$$

2. Graph function P .



Algebra I Class Worksheet #4 Unit 8

Tom has a part-time job. He can work up to 20 hours a week. He gets paid \$8.00 per hour. Let t represent the number of hours he works. Let $P(t)$ represent his total pay.

1. Make a table giving t and $P(t)$ every 4 hours from $t = 0$ to $t = 20$.

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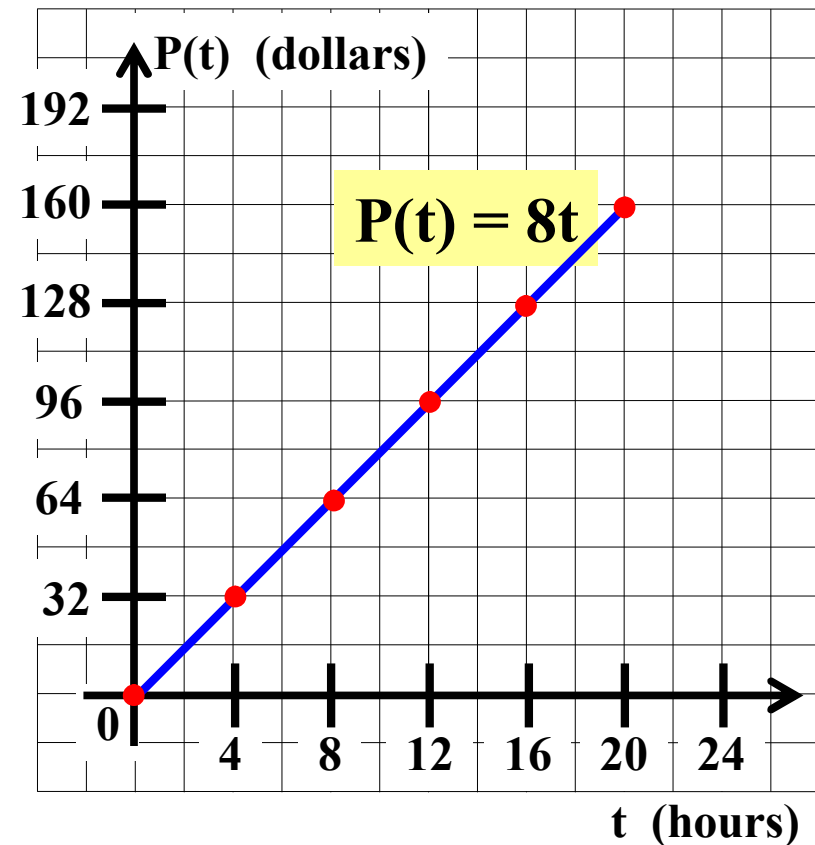
$$0 \leq t \leq 20$$

range

$$0 \leq P(t) \leq 160$$

6. Evaluate $P(8)$.

2. Graph function P .



Algebra I Class Worksheet #4 Unit 8

Tom has a part-time job. He can work up to 20 hours a week. He gets paid \$8.00 per hour. Let t represent the number of hours he works. Let $P(t)$ represent his total pay.

1. Make a table giving t and $P(t)$ every 4 hours from $t = 0$ to $t = 20$.

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6. Evaluate $P(8)$.

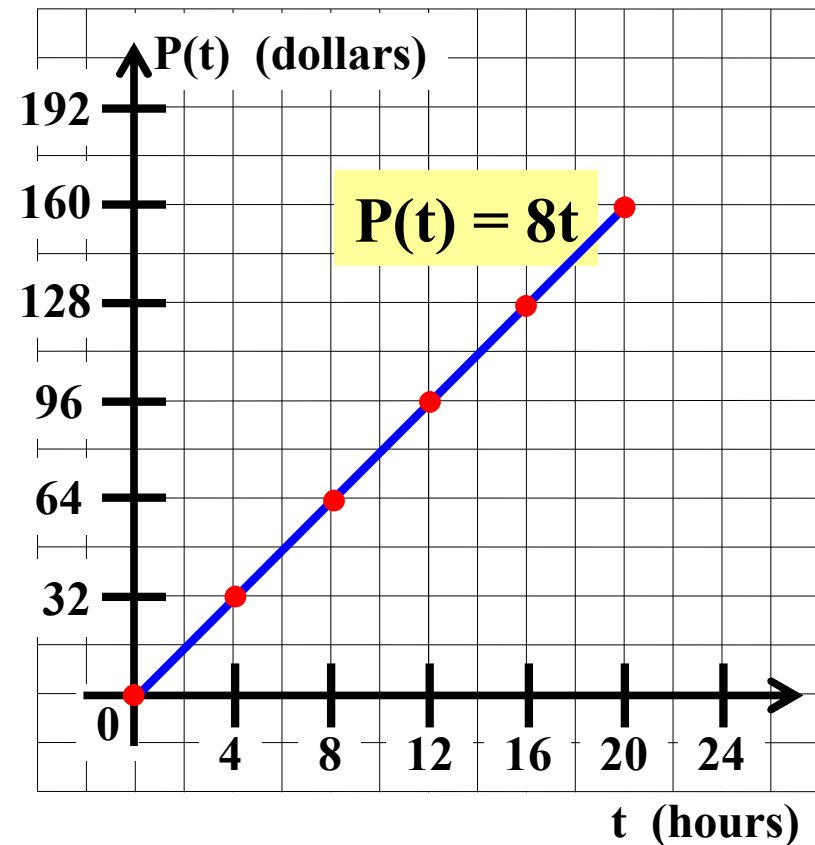
domain

$$0 \leq t \leq 20$$

range

$$0 \leq P(t) \leq 160$$

2. Graph function P .



Algebra I Class Worksheet #4 Unit 8

Tom has a part-time job. He can work up to 20 hours a week. He gets paid \$8.00 per hour. Let t represent the number of hours he works. Let $P(t)$ represent his total pay.

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6. Evaluate $P(8)$.

$P(8)$

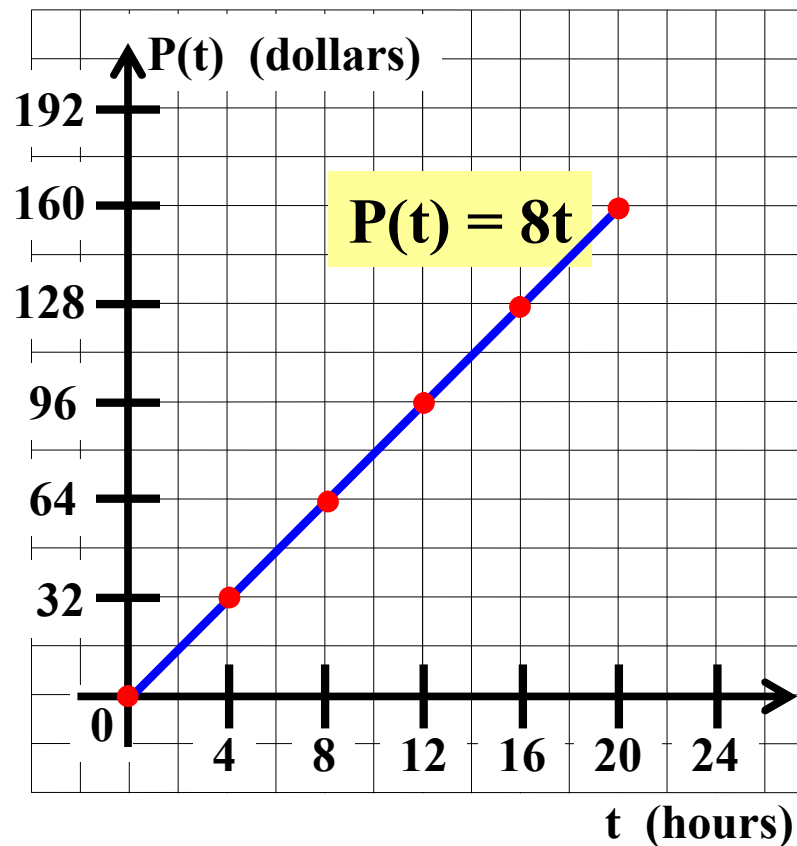
domain

$$0 \leq t \leq 20$$

range

$$0 \leq P(t) \leq 160$$

2. Graph function P .



Algebra I Class Worksheet #4 Unit 8

Tom has a part-time job. He can work up to 20 hours a week. He gets paid \$8.00 per hour. Let t represent the number of hours he works. Let $P(t)$ represent his total pay.

1. Make a table giving t and $P(t)$ every 4 hours from $t = 0$ to $t = 20$.

t	$P(t)$
0	0
4	32
8	64
12	96
16	128
20	160

6. Evaluate $P(8)$.

$$P(8) =$$

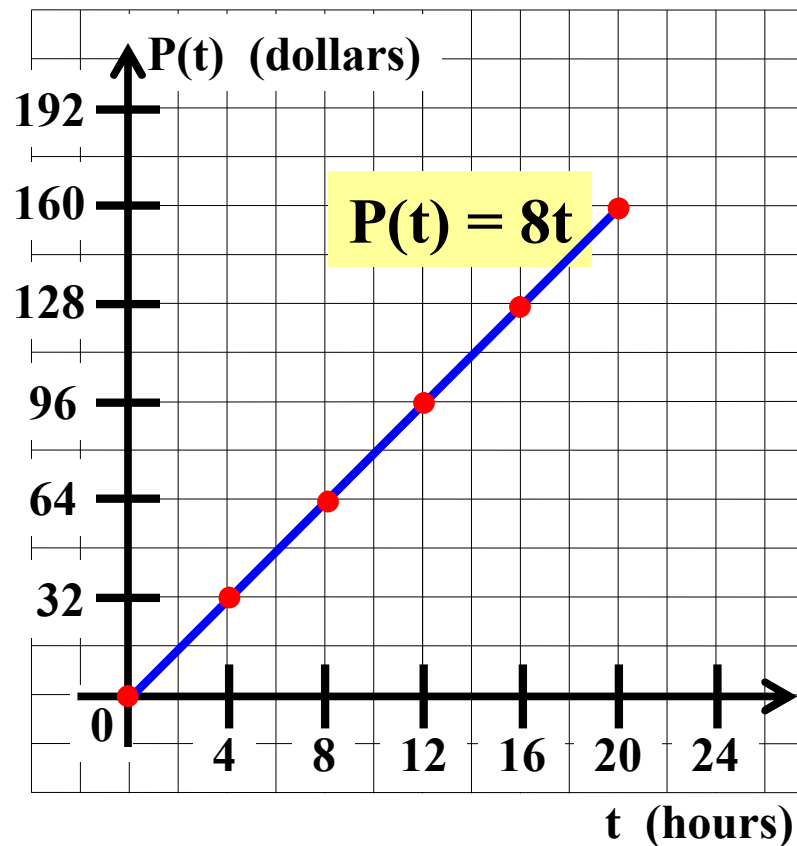
domain

$$0 \leq t \leq 20$$

range

$$0 \leq P(t) \leq 160$$

2. Graph function P .



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t	$P(t)$
0	0
4	32
8	64
12	96
16	128
20	160

6. Evaluate $P(8)$.

$$P(8) = 64$$

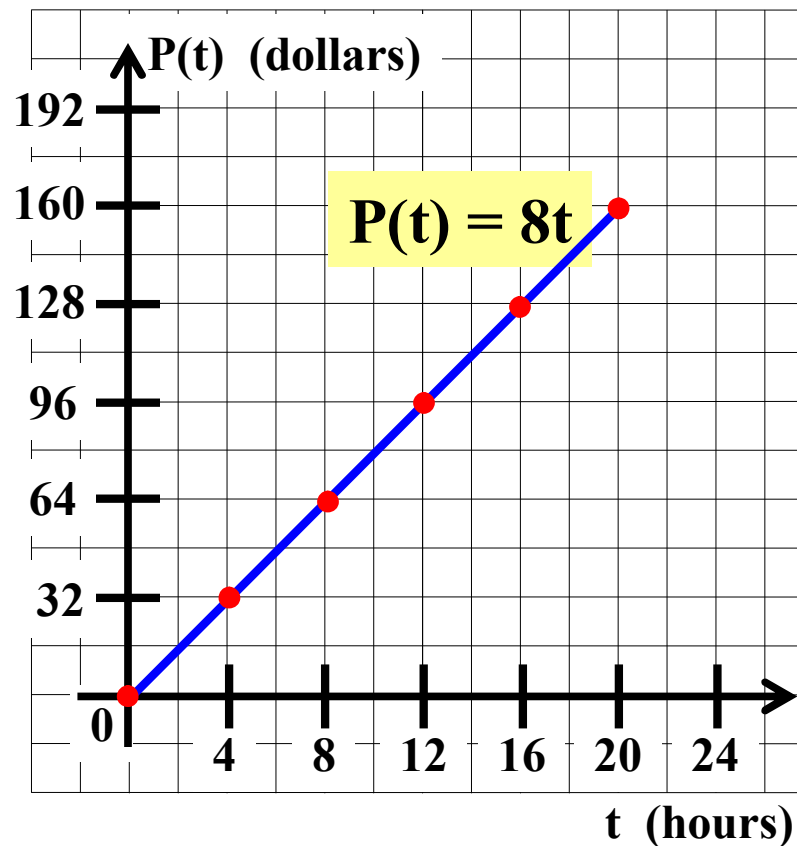
domain

$$0 \leq t \leq 20$$

range

$$0 \leq P(t) \leq 160$$

2. Graph function P .



Algebra I Class Worksheet #4 Unit 8

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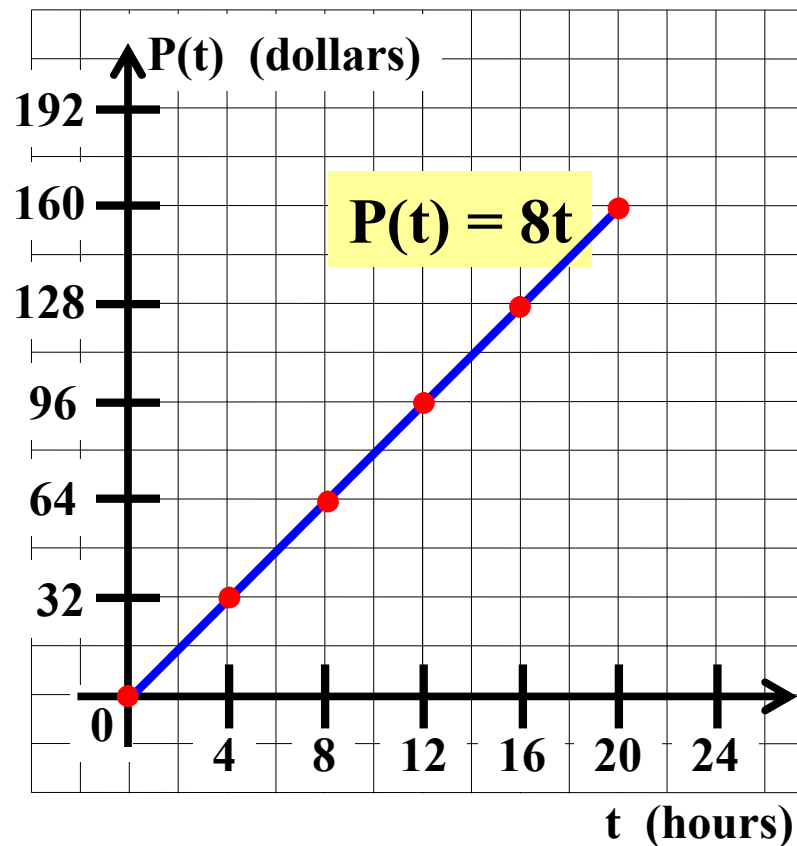
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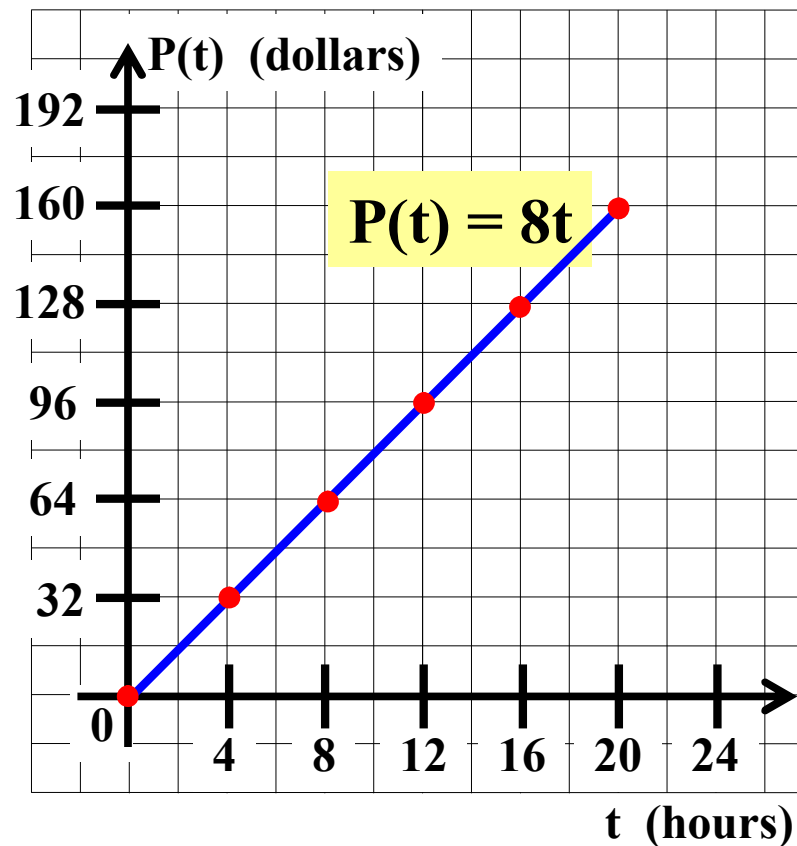
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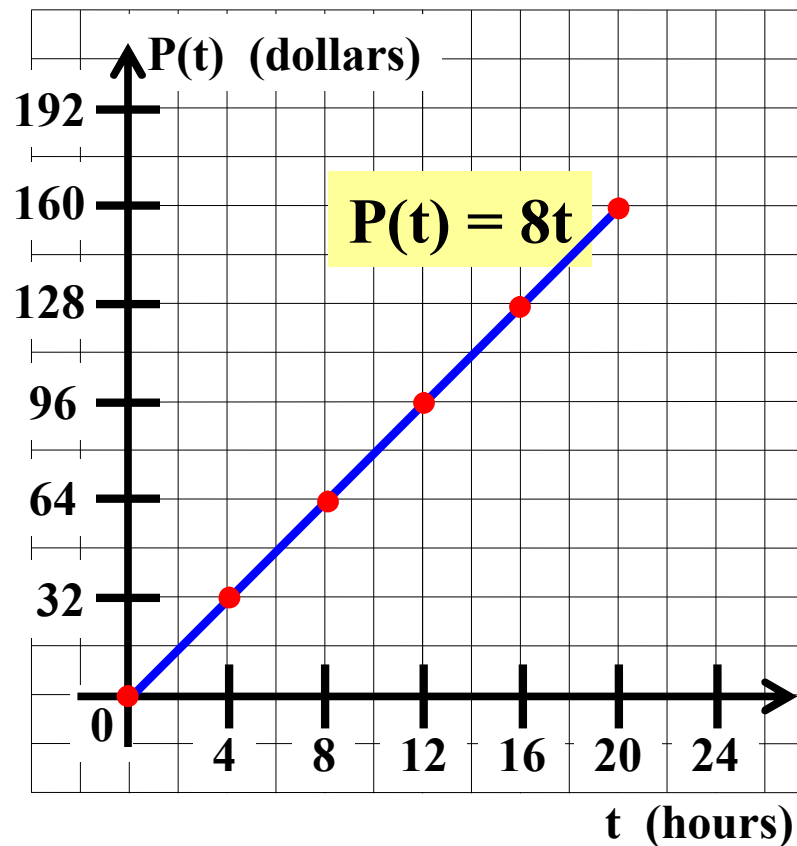
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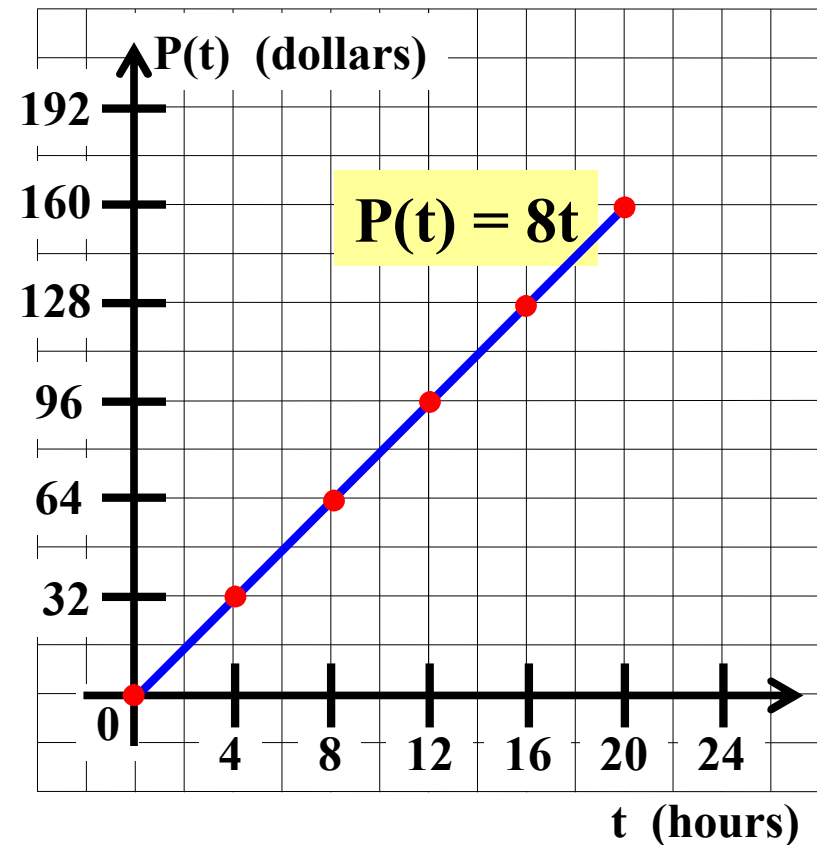
domain

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range

$$0 \leq P(t) \leq 160$$

2. Graph function P .



6. Evaluate $P(8)$. What does $P(8)$ represent in terms of the problem?

$$P(8) = 64$$

$P(8)$ represents Tom's total pay

Algebra I Class Worksheet #4 Unit 8

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range

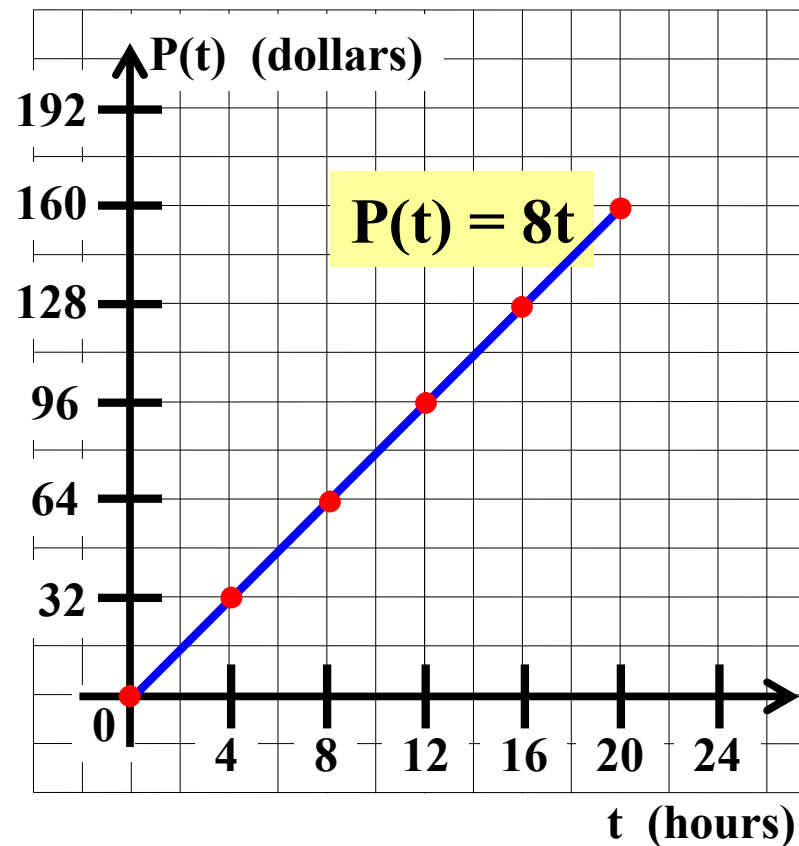
$$0 \leq P(t) \leq 160$$

6. Evaluate $P(8)$. What does $P(8)$ represent in terms of the problem?

$$P(8) = 64$$

$P(8)$ represents Tom's total pay for working 8 hours.

2. Graph function P .



Algebra I Class Worksheet #4 Unit 8

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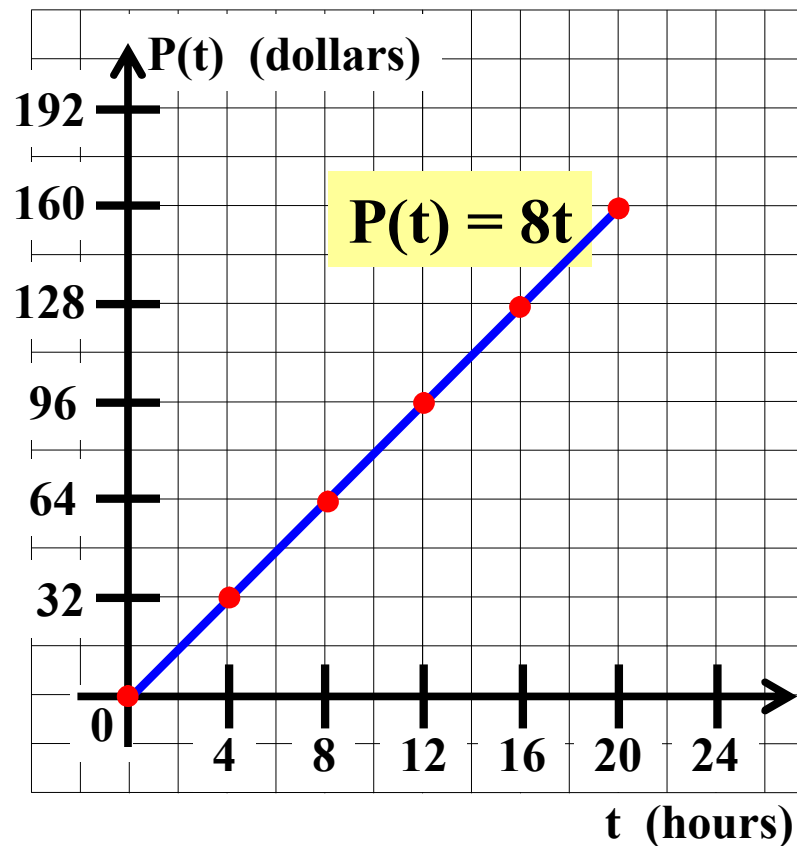
domain

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2. Graph function P .



6. Evaluate $P(8)$. What does $P(8)$ represent in terms of the problem?

$$P(8) = 64 \text{ dollars}$$

$P(8)$ represents Tom's total pay for working 8 hours.

Algebra I Class Worksheet #4 Unit 8

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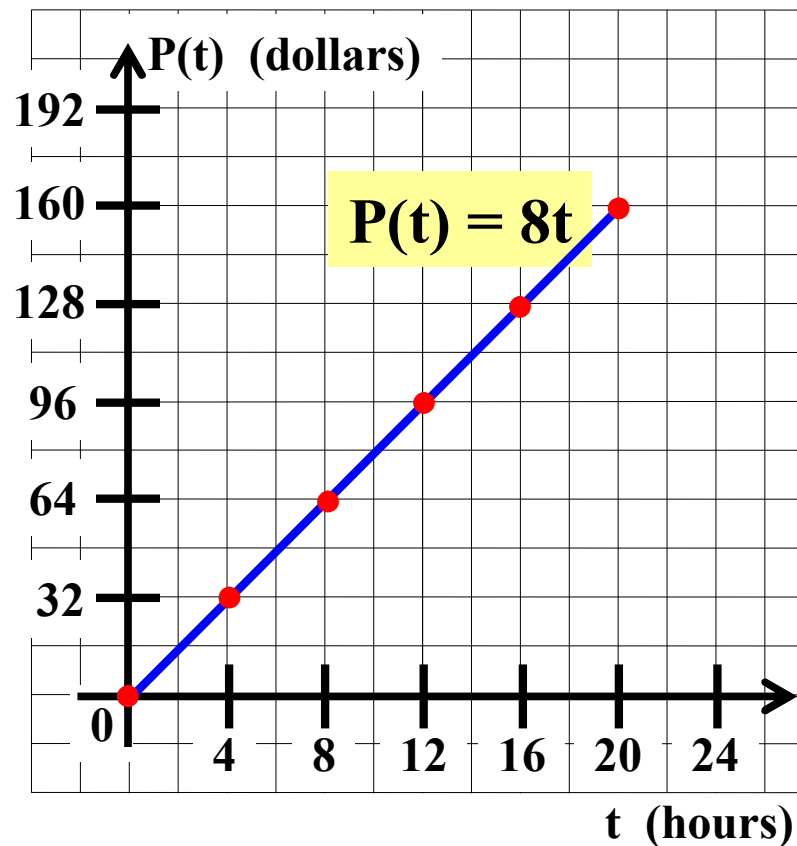
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2. Graph function P .



7. If $P(t) = 28$, then find the value of t .

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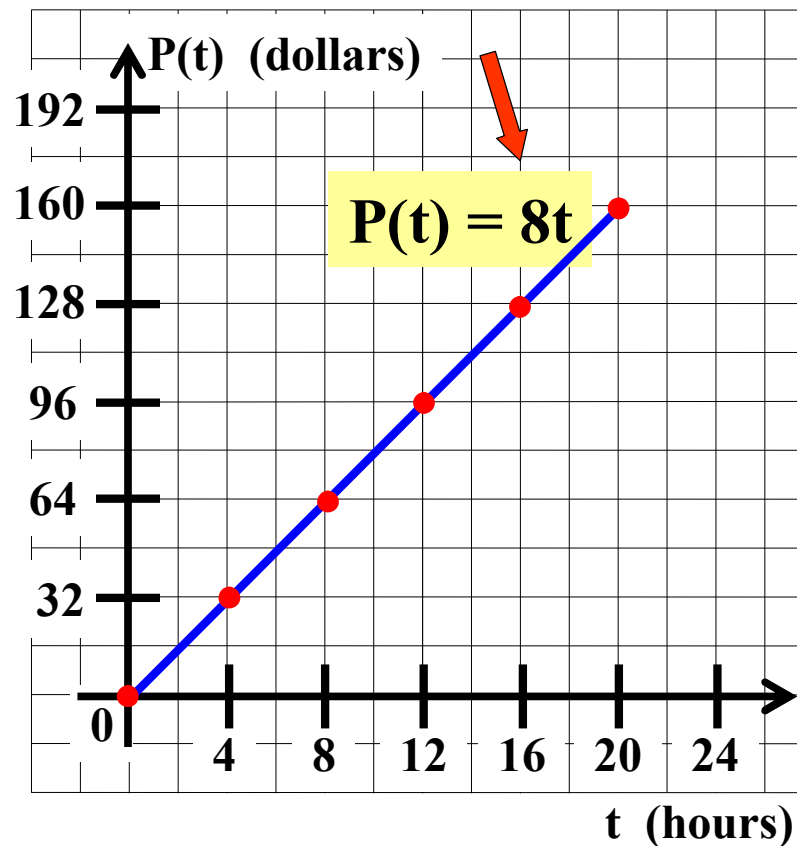
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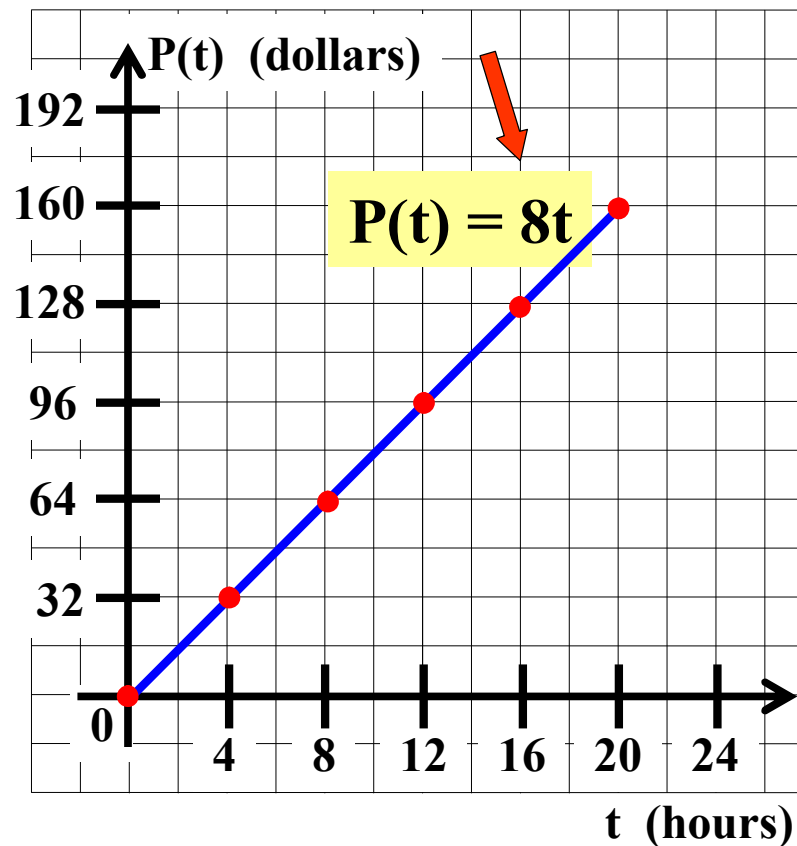
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$$8t =$$

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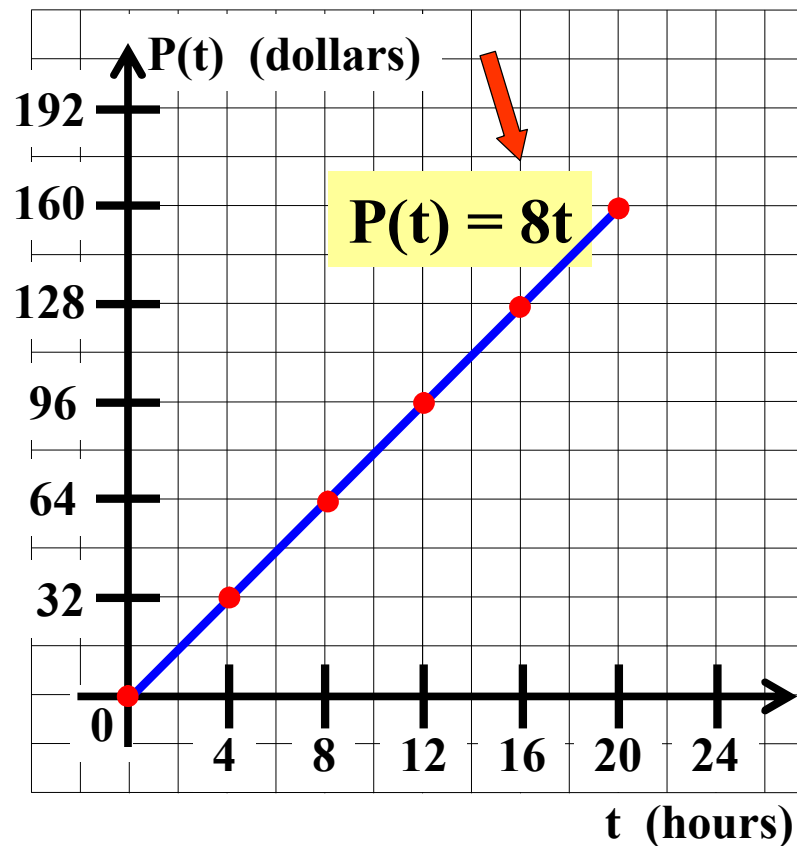
domain

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$$8t = 28$$

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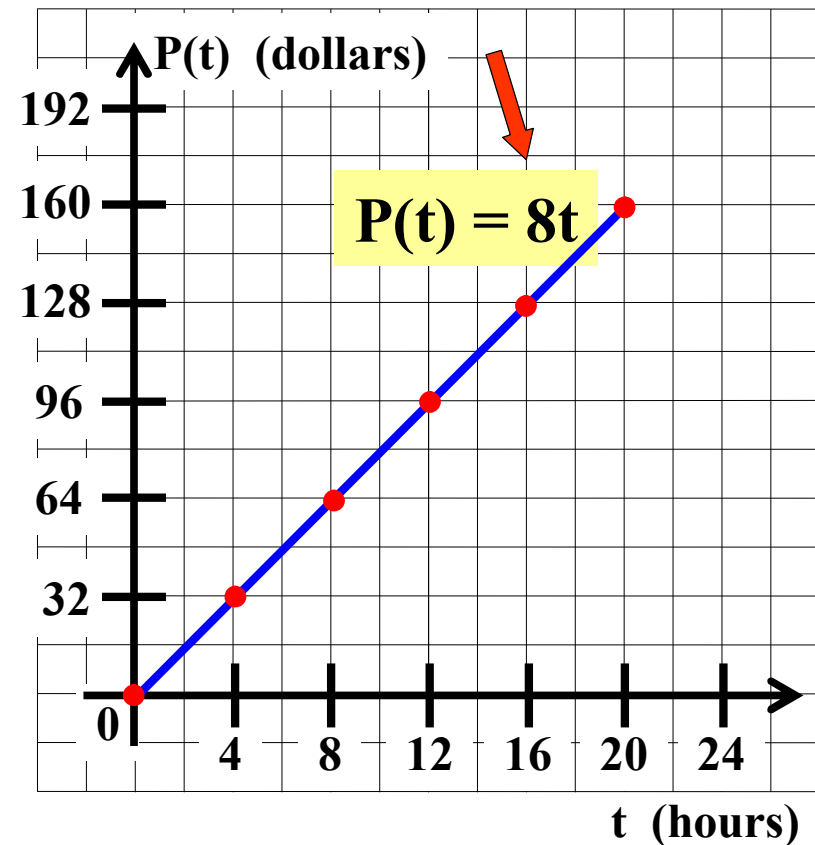
domain

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range

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$$8t = 28 \rightarrow$$

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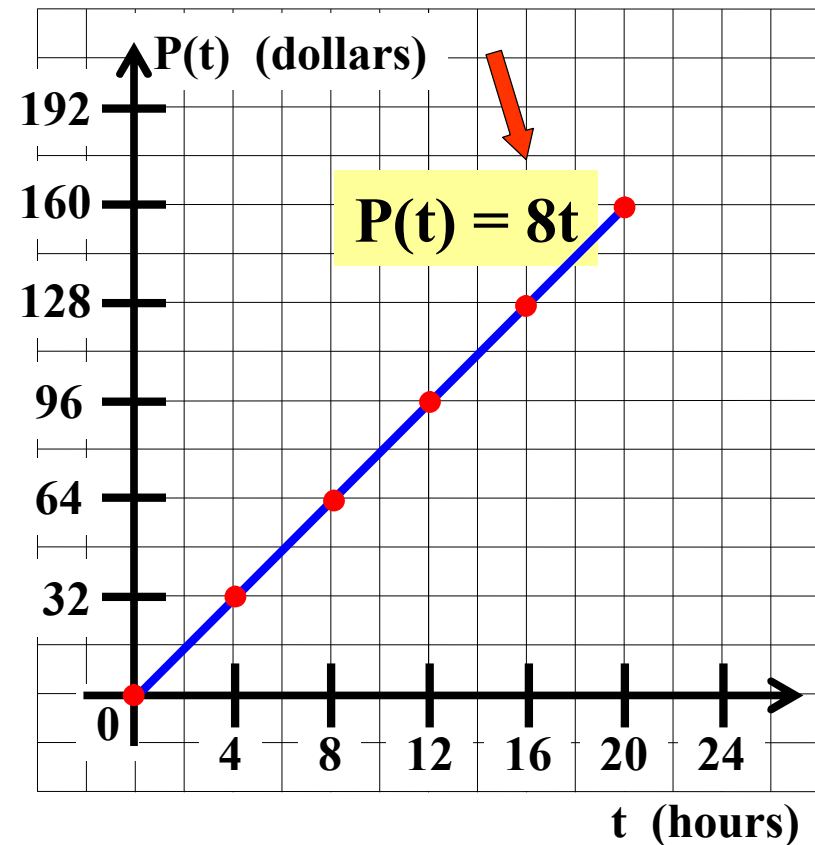
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$$8t = 28 \longrightarrow t =$$

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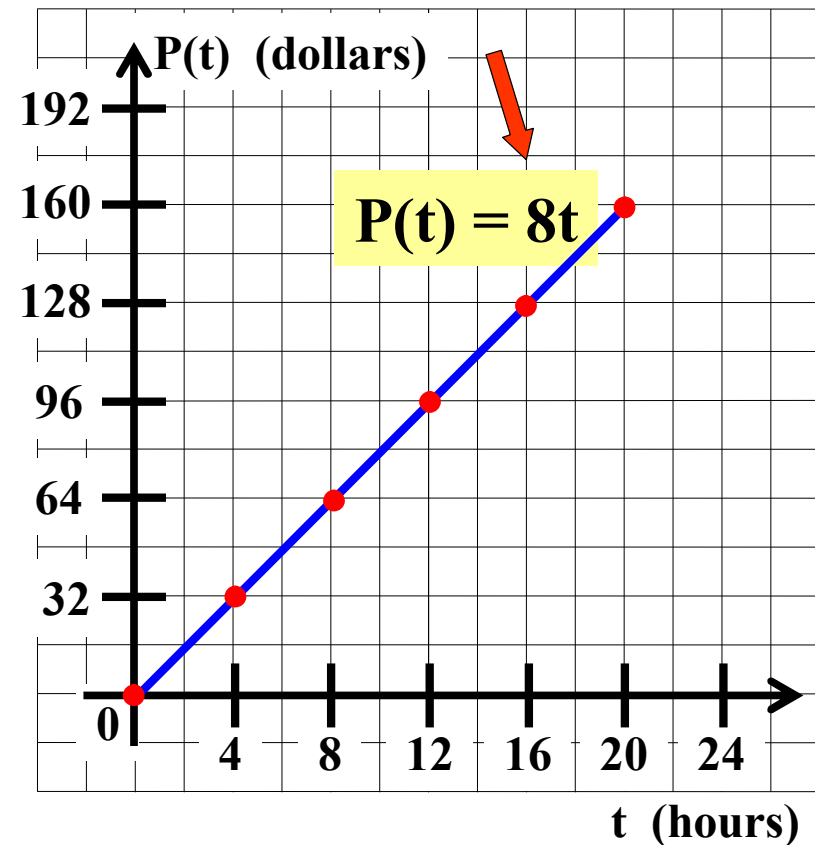
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$$8t = 28 \longrightarrow t = 3.5$$

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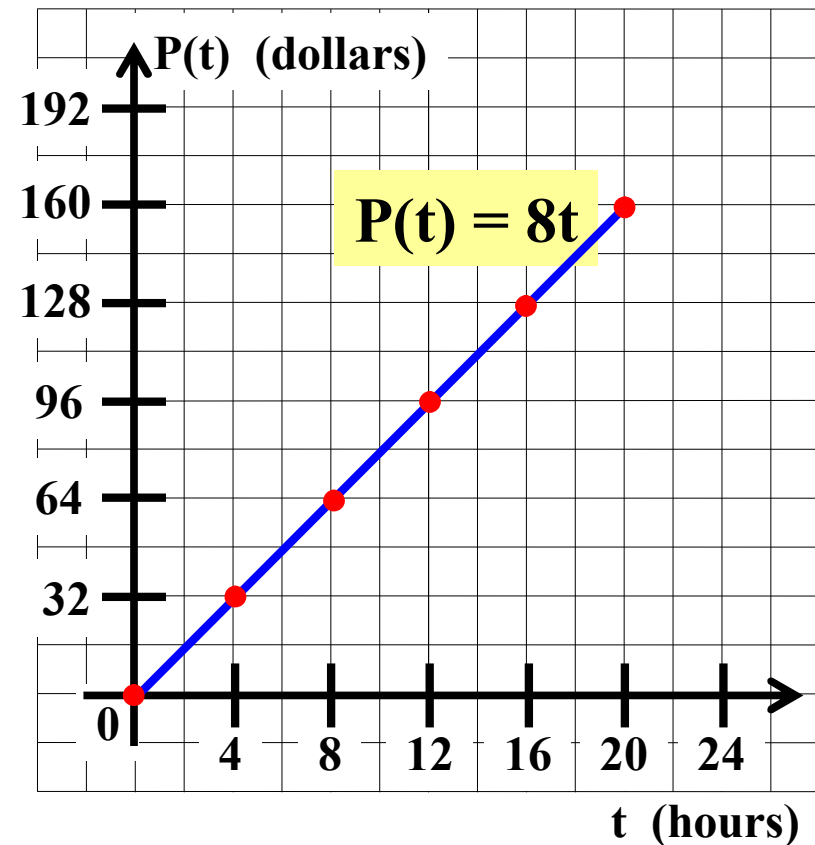
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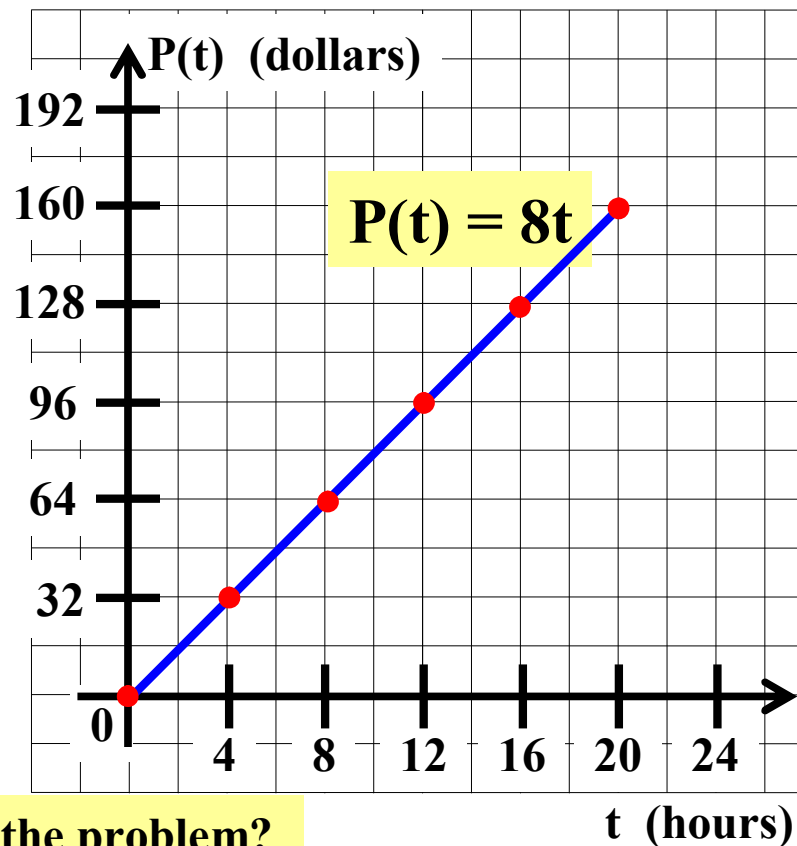
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What does this value of t represent in terms of the problem?

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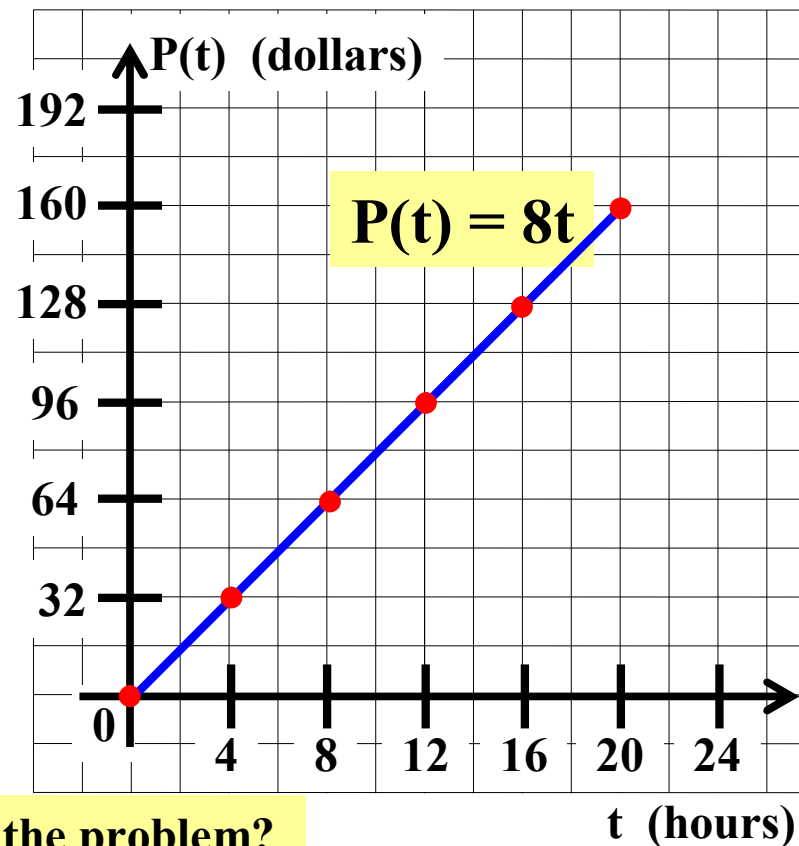
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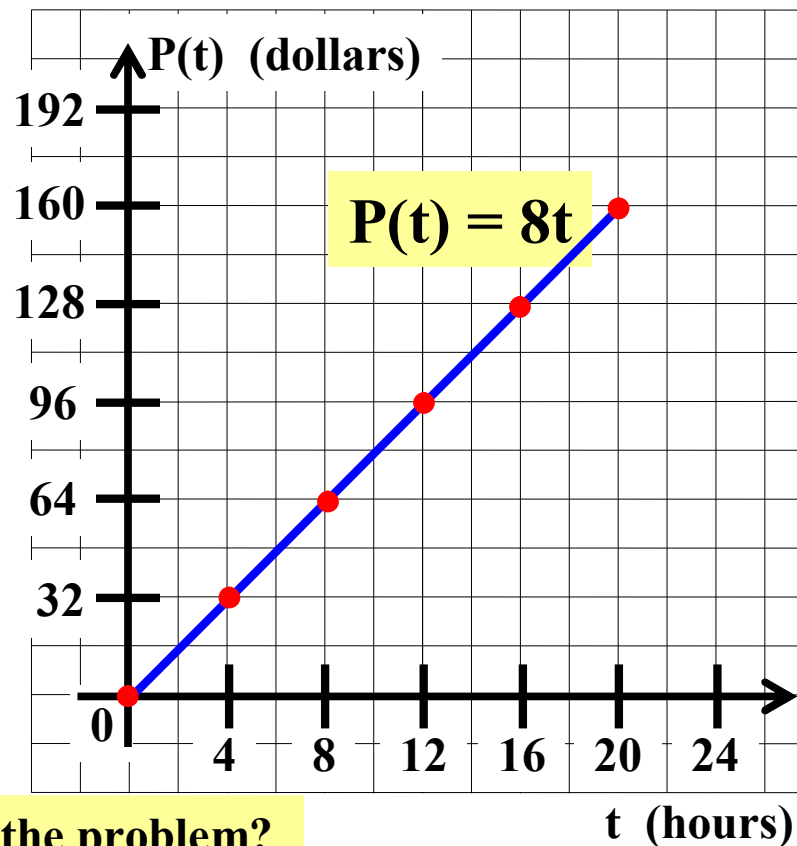
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$$8t = 28 \longrightarrow t = 3.5$$

This represents the number of hours Tom works.

Algebra I Class Worksheet #4 Unit 8

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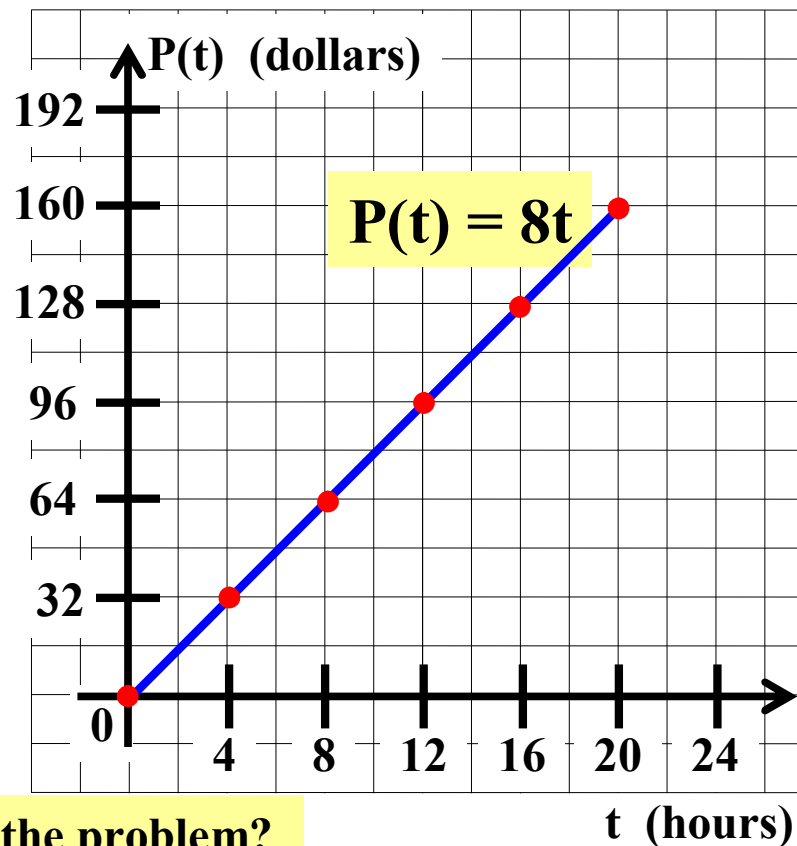
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$$0 \leq P(t) \leq 160$$

2. Graph function P .



7. If $P(t) = 28$, then find the value of t .

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

$$8t = 28 \longrightarrow t = 3.5$$

This represents the number of hours Tom works to earn 28 dollars.

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t	$P(t)$
0	0
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16	128
20	160

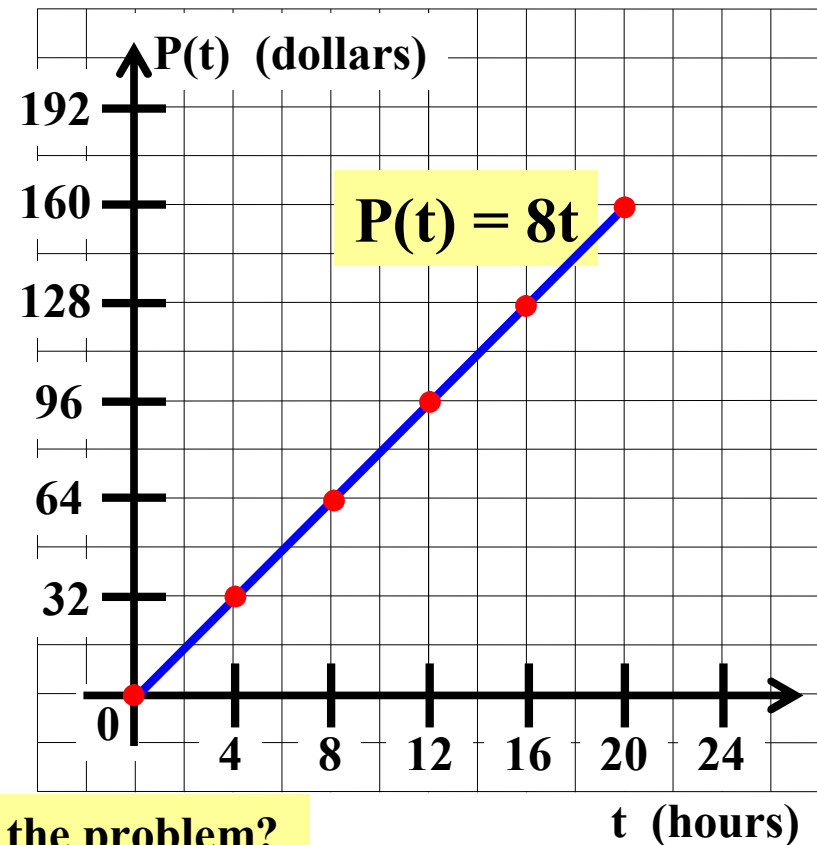
domain

$$0 \leq t \leq 20$$

range

$$0 \leq P(t) \leq 160$$

2. Graph function P .



7. If $P(t) = 28$, then find the value of t .

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

$$8t = 28 \longrightarrow t = 3.5 \text{ hours}$$

This represents the number of hours Tom works to earn 28 dollars.

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

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Blue Fin Bay



30 miles



Bird Island

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Blue Fin Bay



30 miles

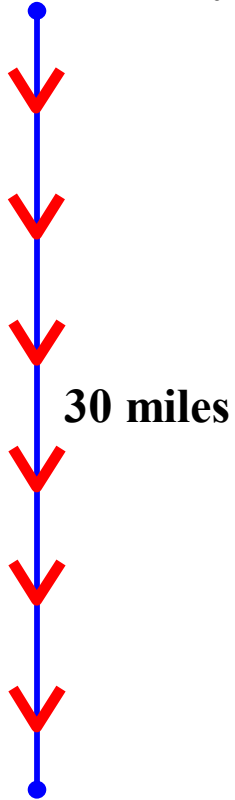


Bird Island

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Blue Fin Bay

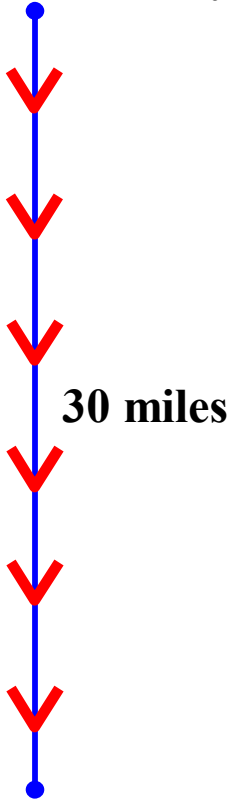


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Blue Fin Bay

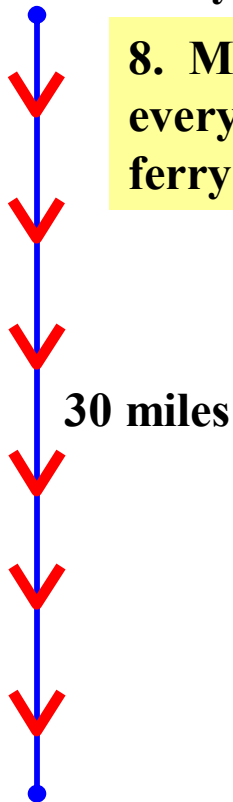


Bird Island

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay



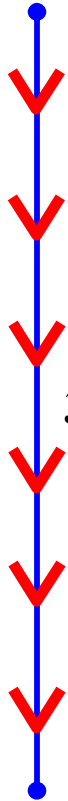
8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

Bird Island

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay



30 miles

Bird Island

8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

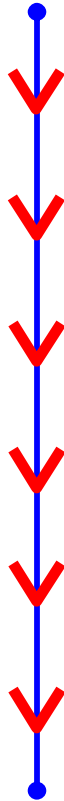
t	$D(t)$
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Bird Island

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Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30

Bird Island

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Blue Fin Bay



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Blue Fin Bay



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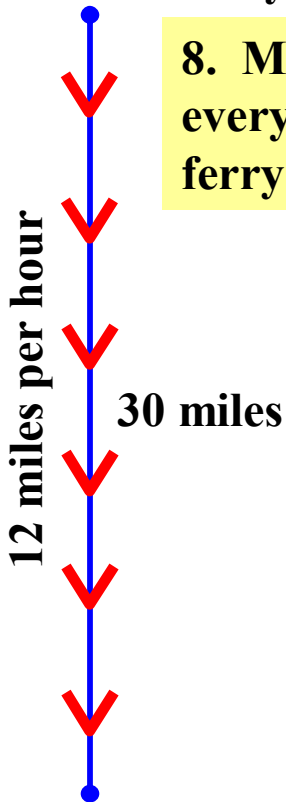
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Bird Island

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Blue Fin Bay



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t	$D(t)$
0	30
0.5	

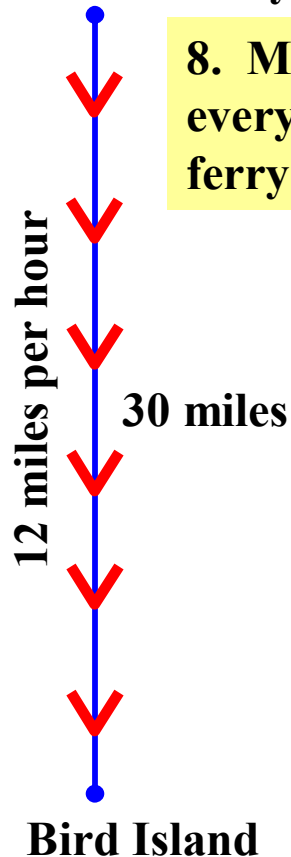
In $\frac{1}{2}$ hour, the ferry will move 6 miles closer to Bird Island !!

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay

8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.



t	$D(t)$
0	30
0.5	24

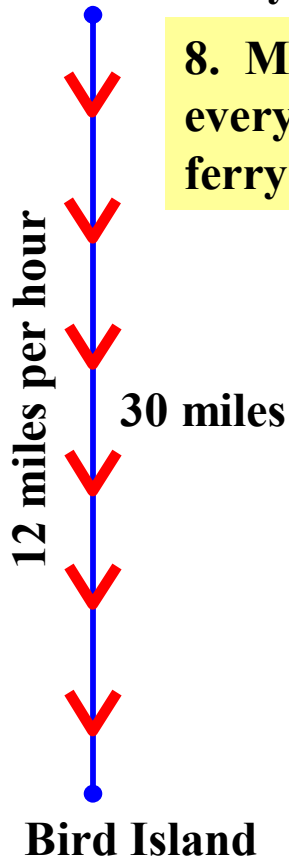
In $\frac{1}{2}$ hour, the ferry will move 6 miles closer to Bird Island !!

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay

8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.



t	$D(t)$
0	30
0.5	24
1	

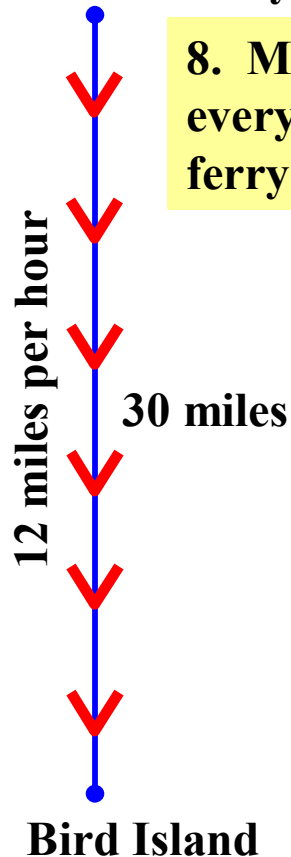
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Blue Fin Bay

8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.



t	$D(t)$
0	30
0.5	24
1	18

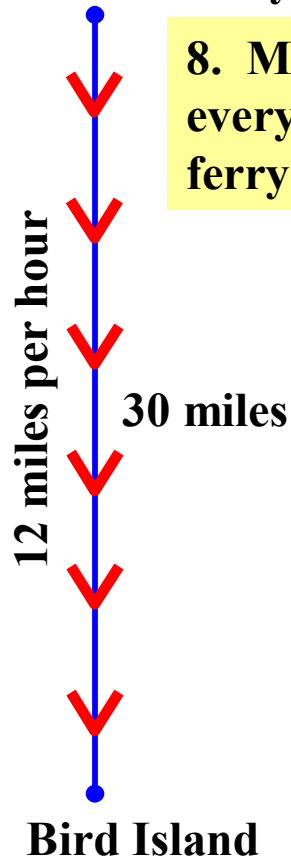
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t	$D(t)$
0	30
0.5	24
1	18
1.5	

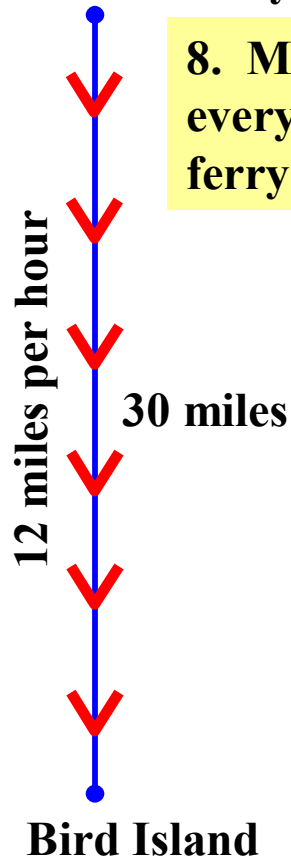
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t	$D(t)$
0	30
0.5	24
1	18
1.5	12

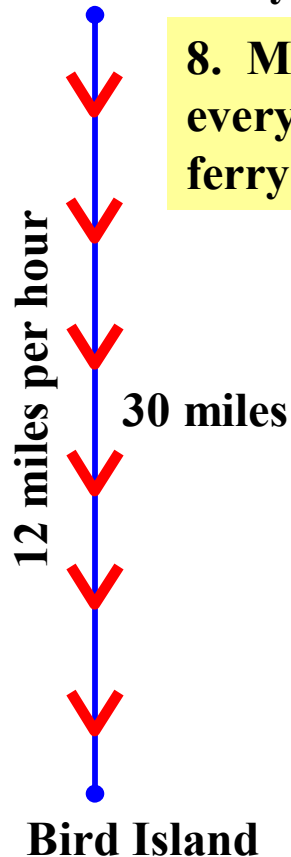
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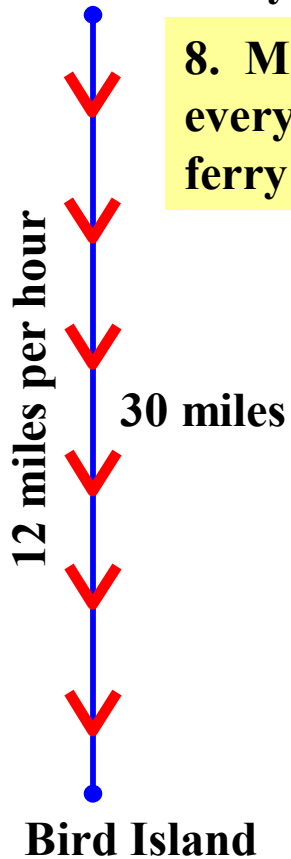
t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	

In $\frac{1}{2}$ hour, the ferry will move 6 miles closer to Bird Island !!

Algebra I Class Worksheet #4 Unit 8

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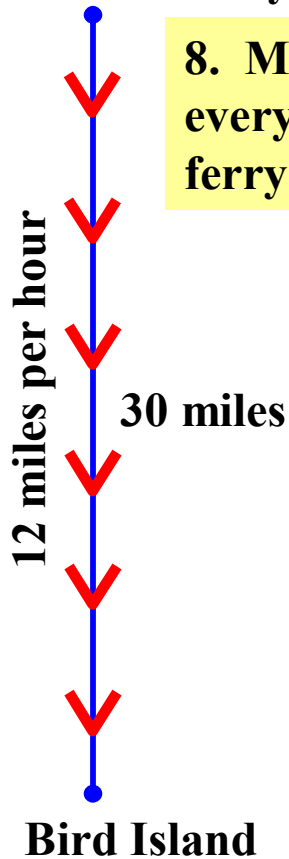
t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6

In $\frac{1}{2}$ hour, the ferry will move 6 miles closer to Bird Island !!

Algebra I Class Worksheet #4 Unit 8

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0.5	24
1	18
1.5	12
2	6
2.5	

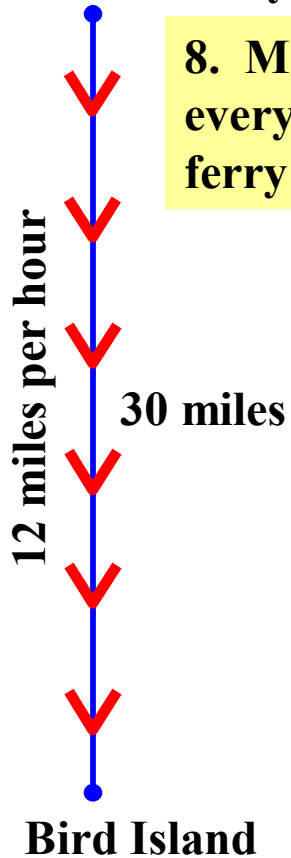
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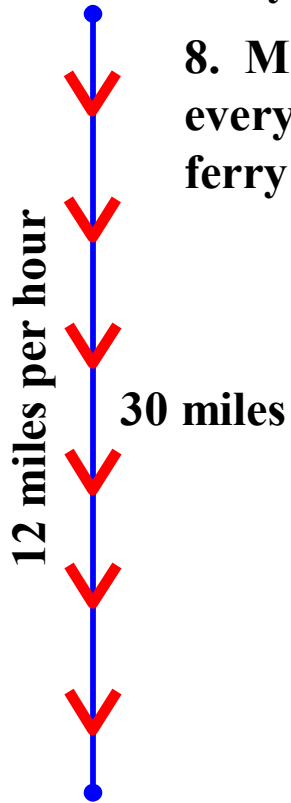
t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

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Blue Fin Bay

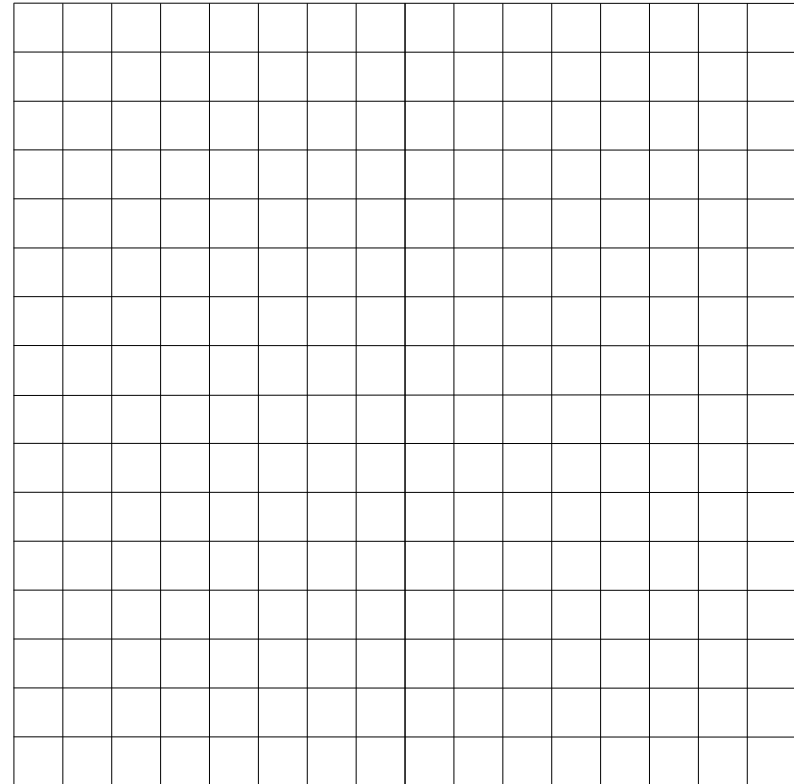


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t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

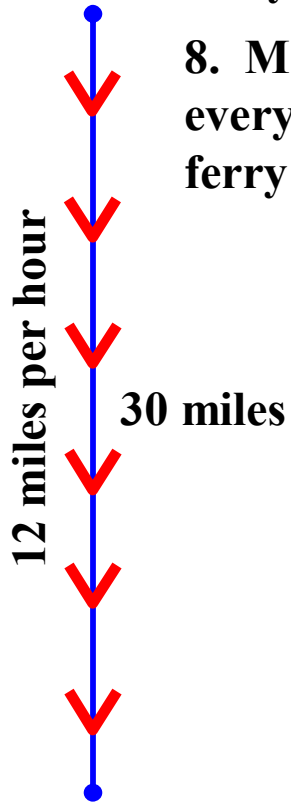
9. Graph function D .



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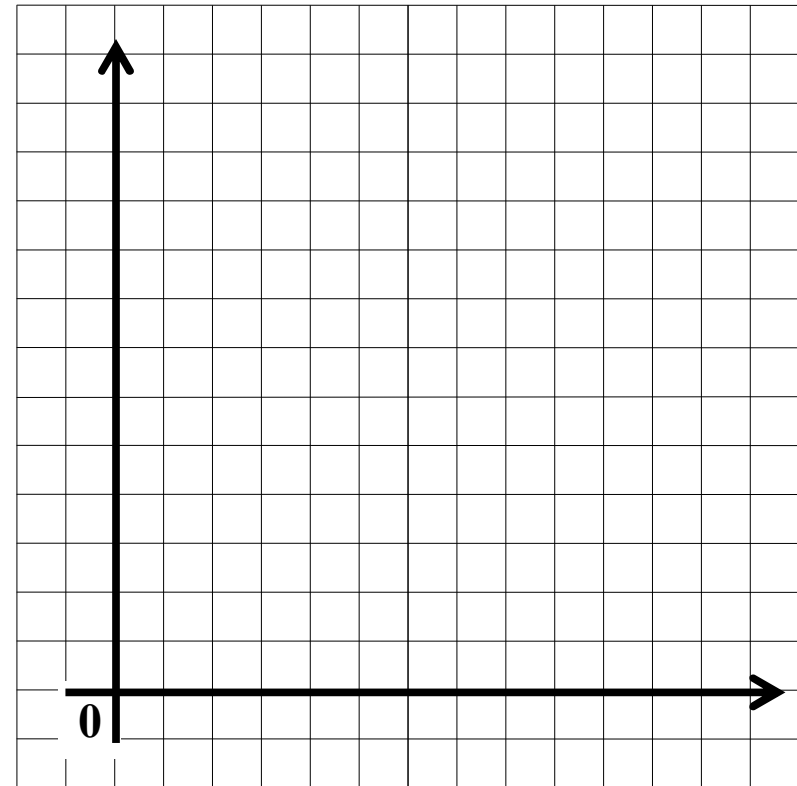


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0.5	24
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1.5	12
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2.5	0

Bird Island

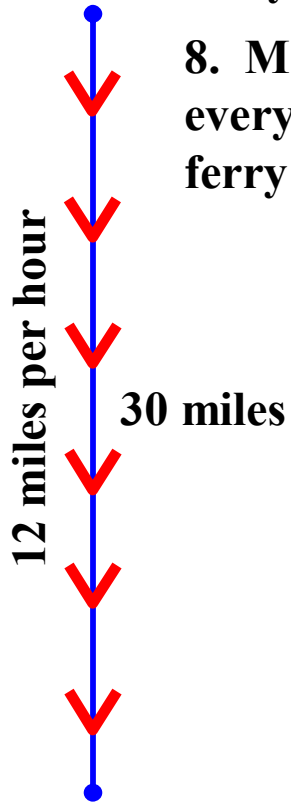
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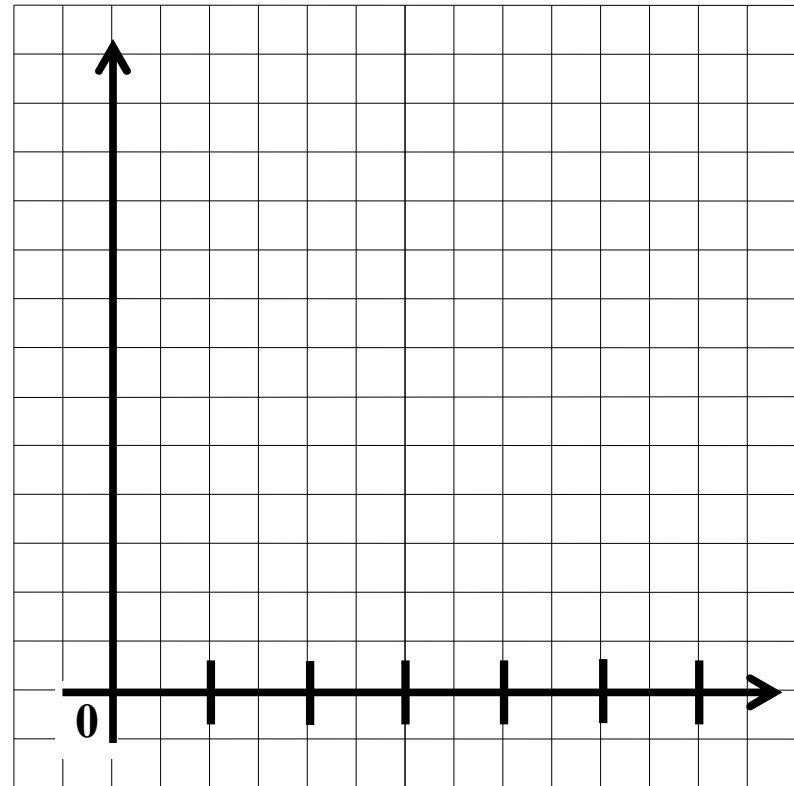


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t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

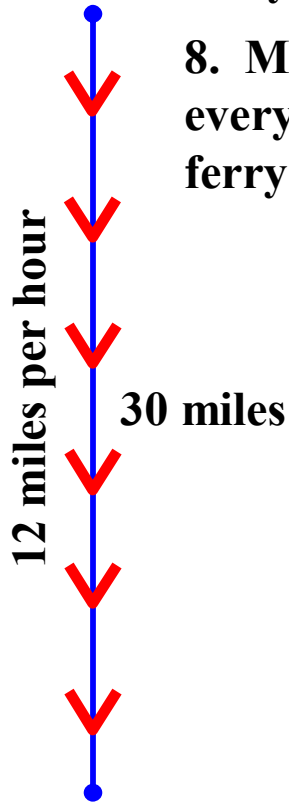
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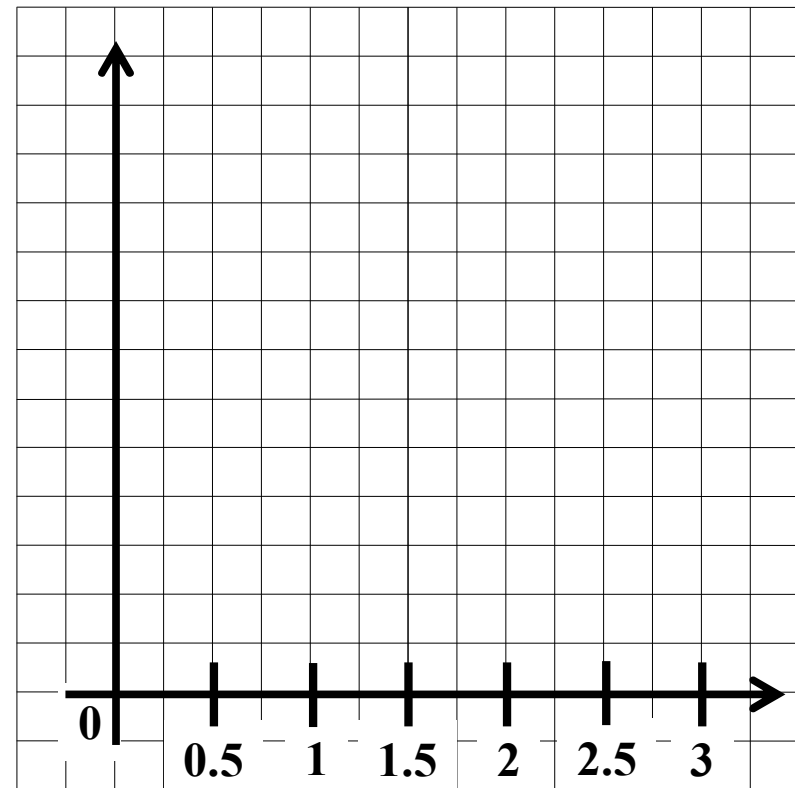


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0	30
0.5	24
1	18
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2.5	0

Bird Island

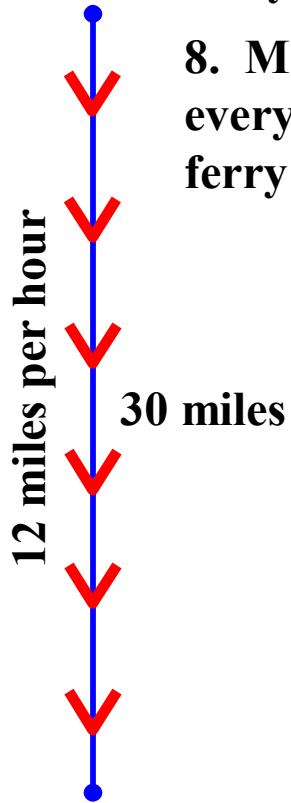
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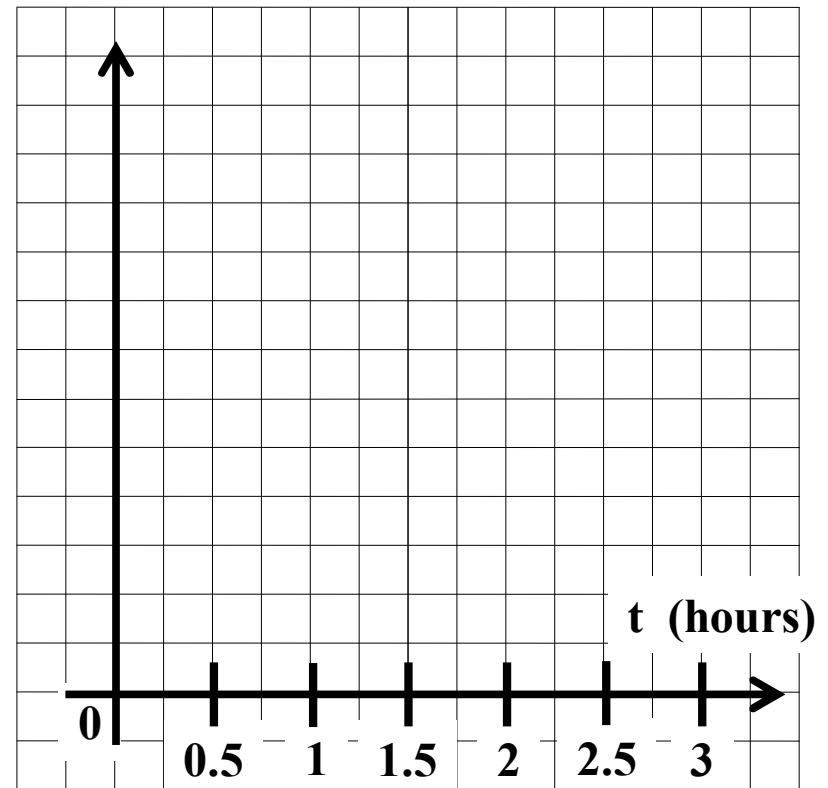


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2.5	0

Bird Island

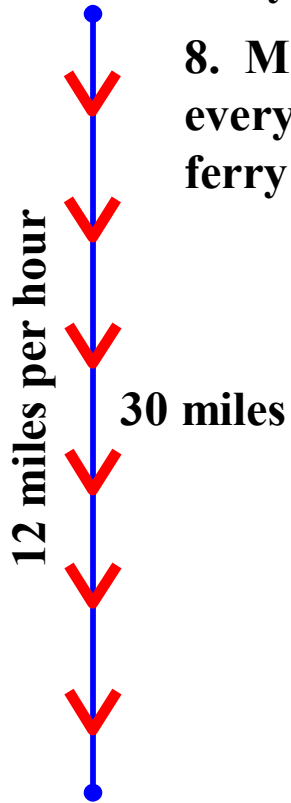
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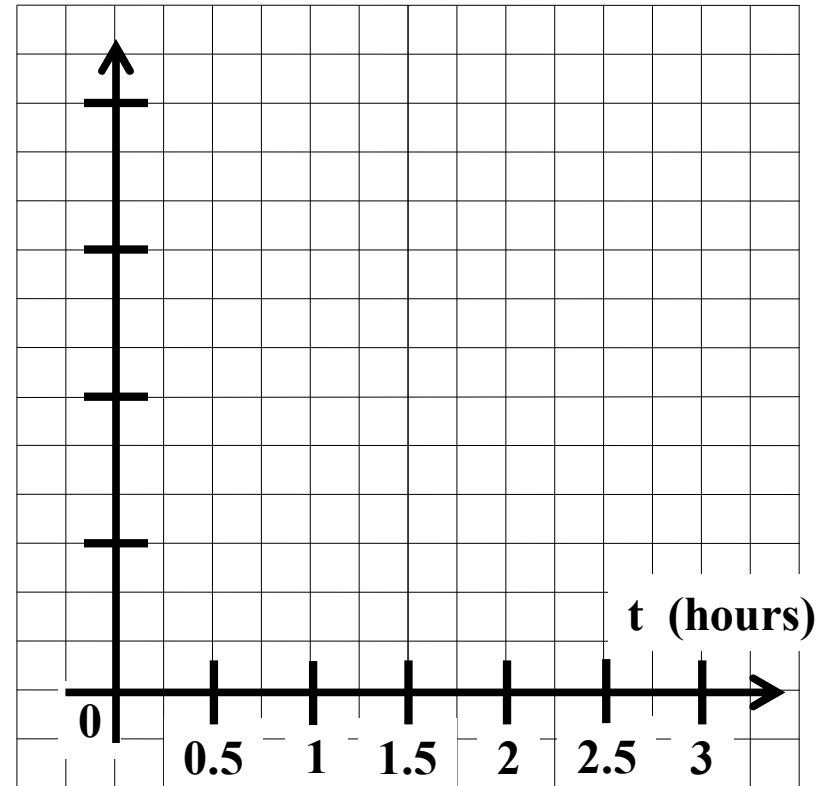


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1	18
1.5	12
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2.5	0

Bird Island

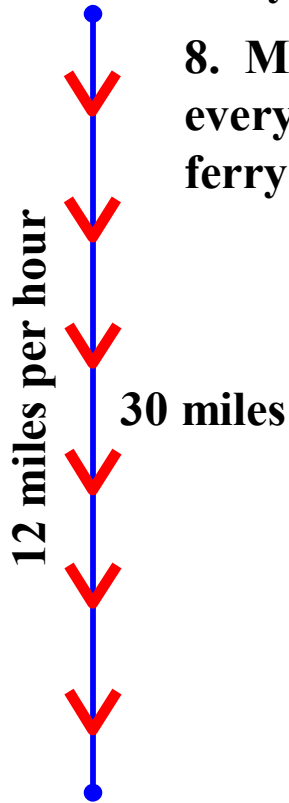
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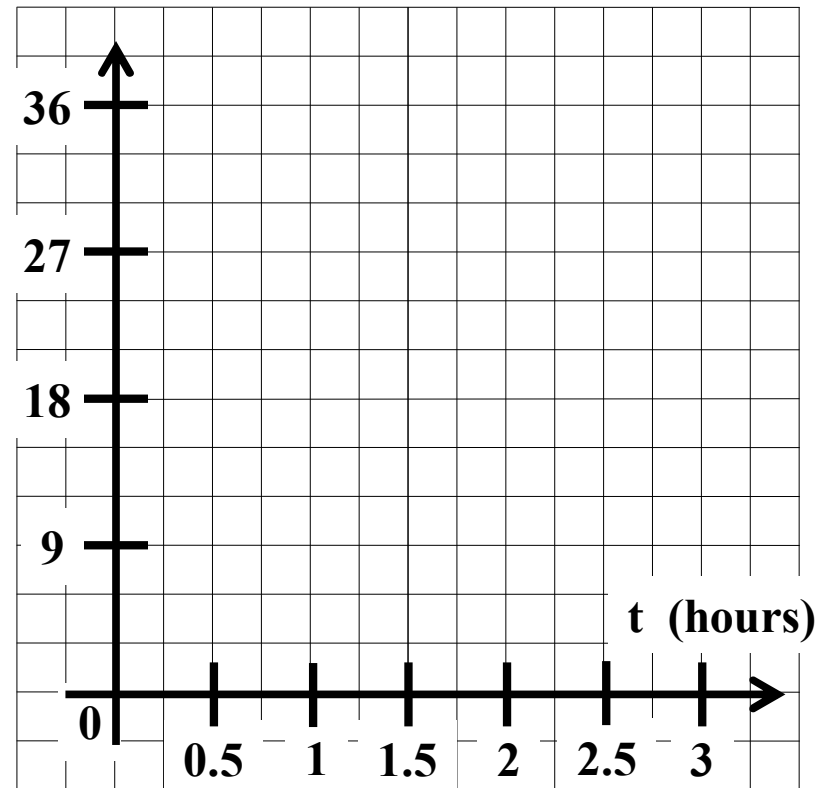


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0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

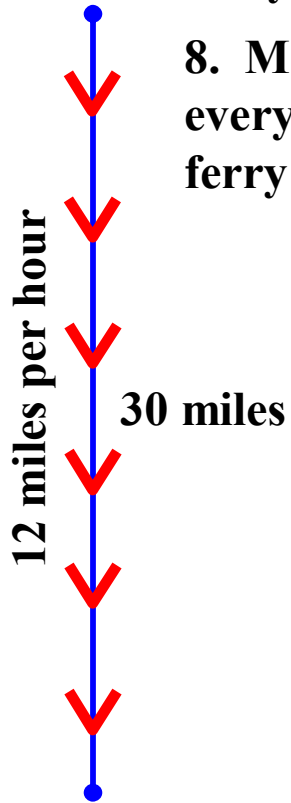
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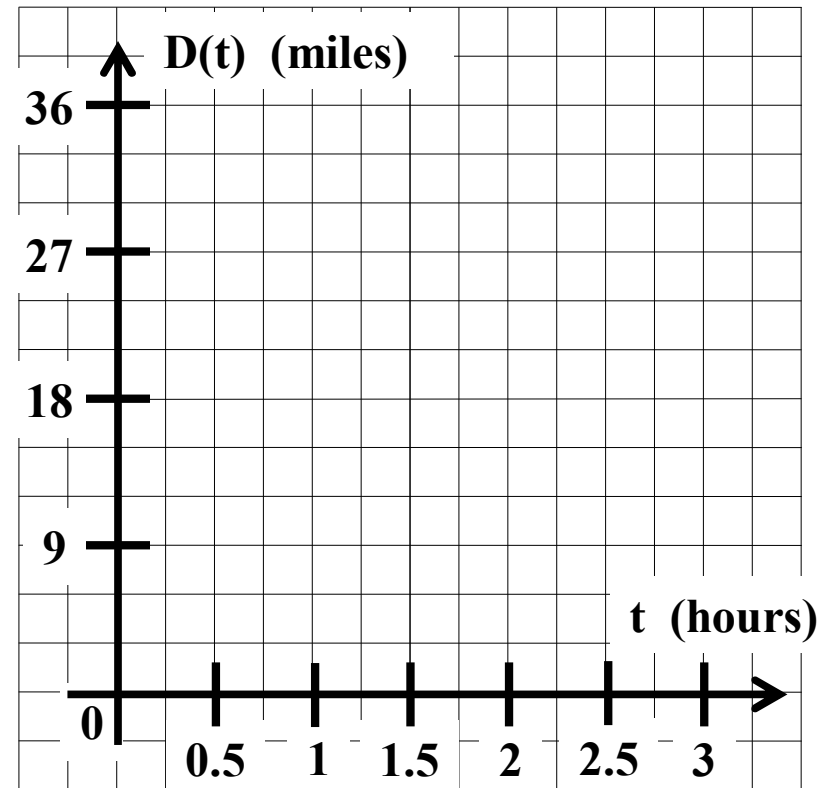


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0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

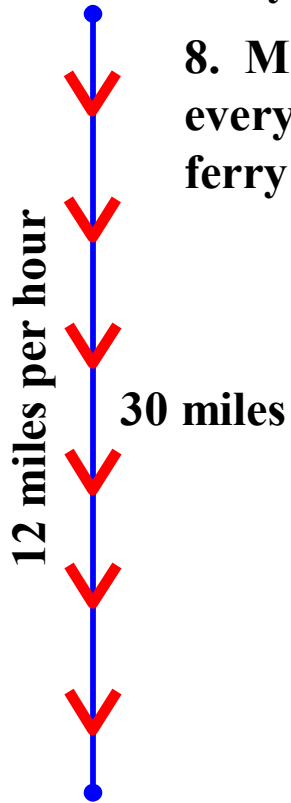
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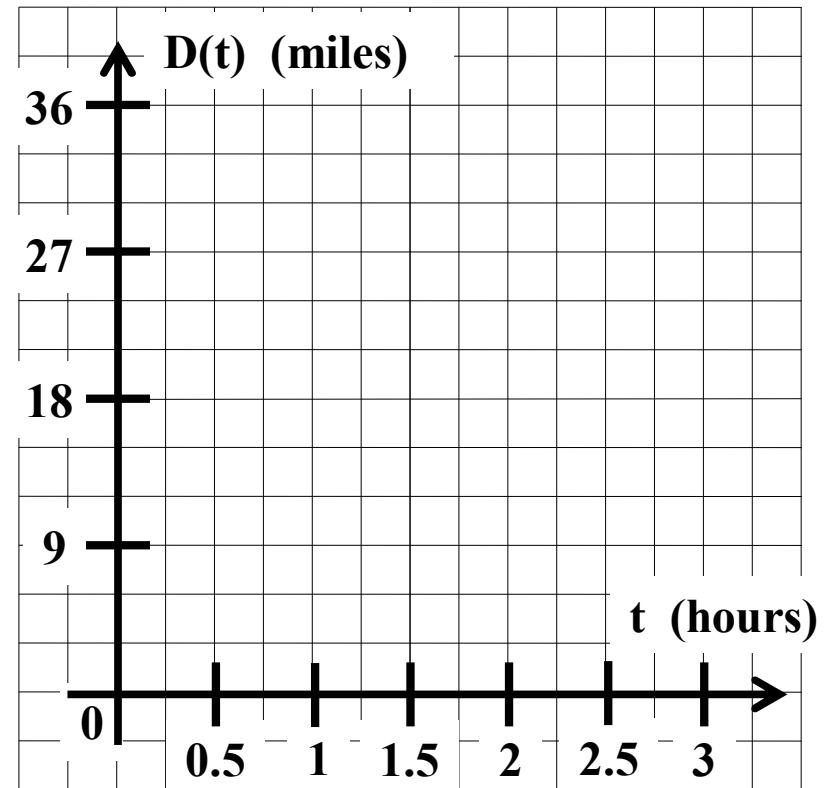
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1	18
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2.5	0

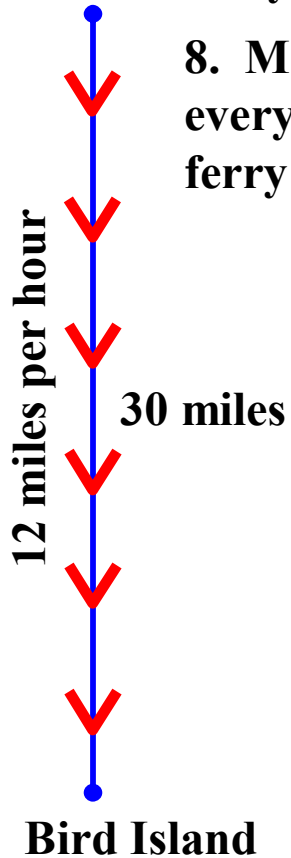
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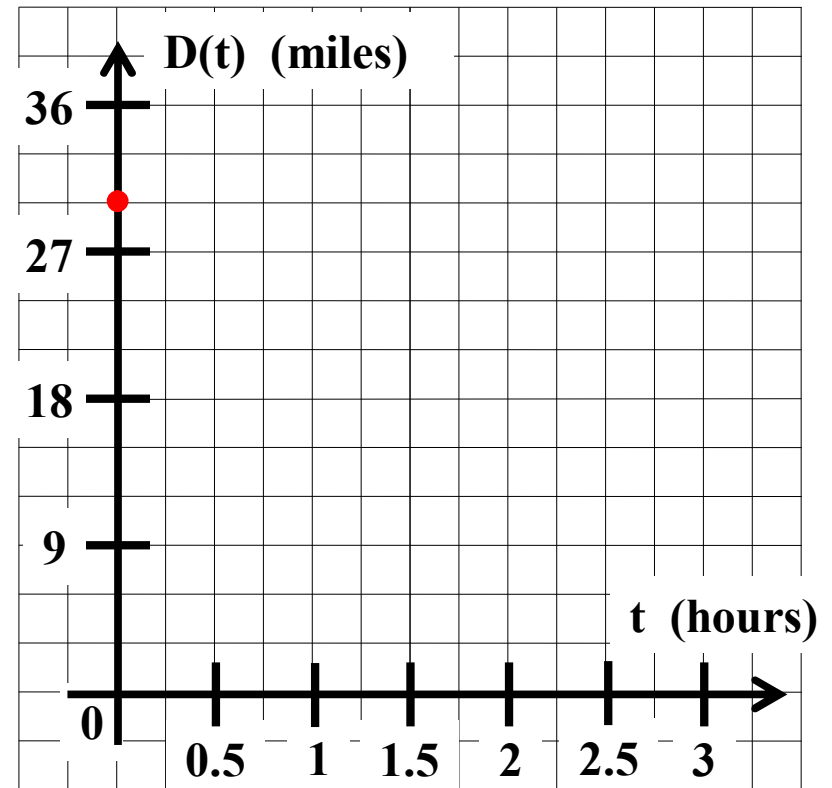
Blue Fin Bay



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0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

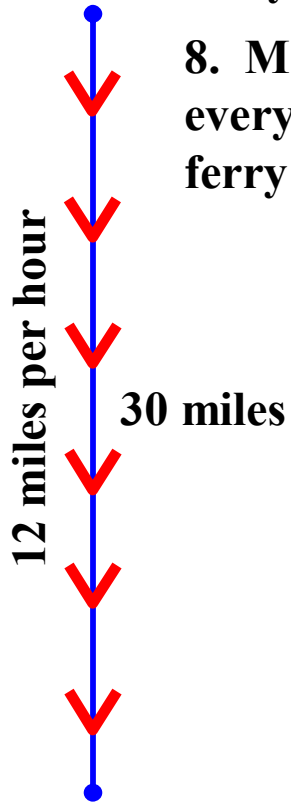
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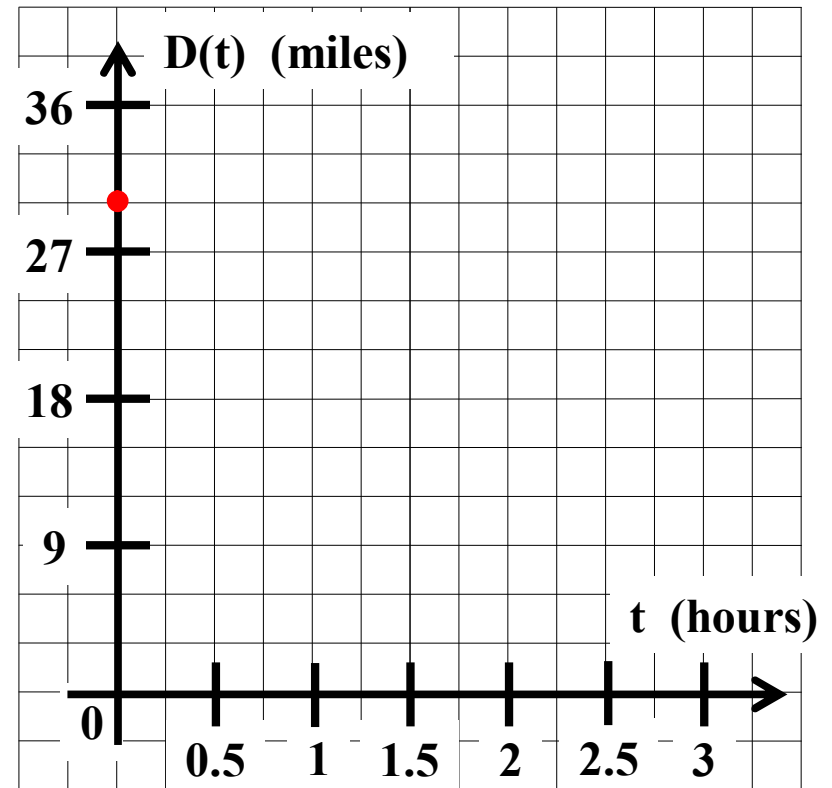


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0.5	24
1	18
1.5	12
2	6
2.5	0



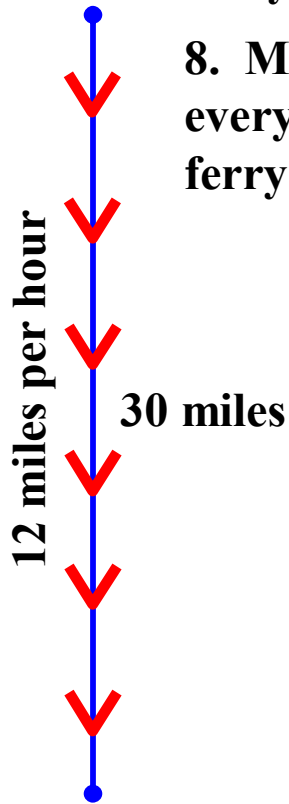
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Algebra I Class Worksheet #4 Unit 8

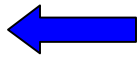
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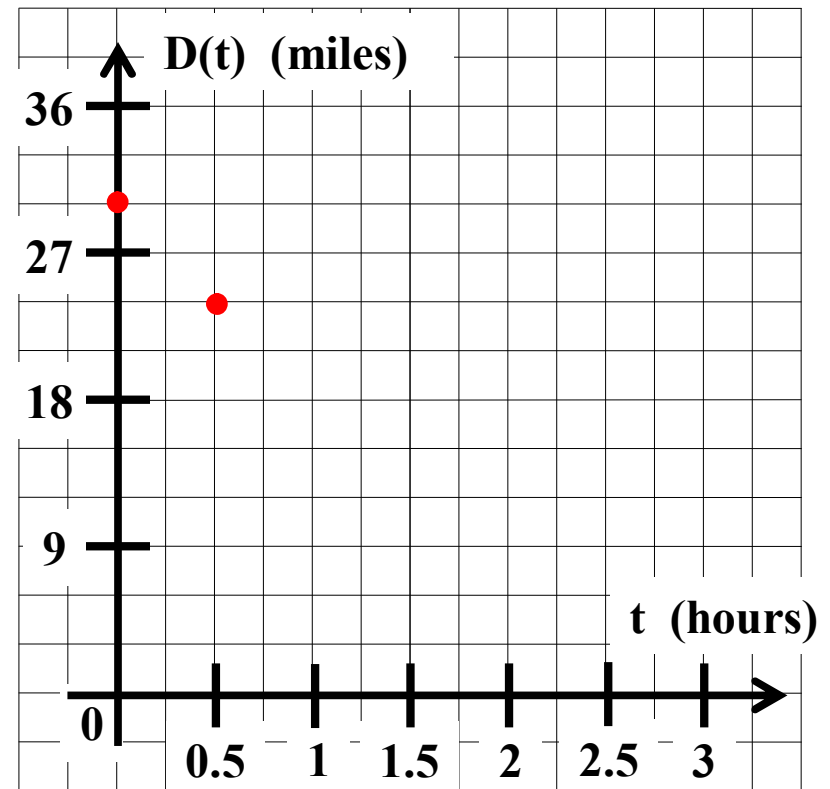
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0.5	24
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Bird Island

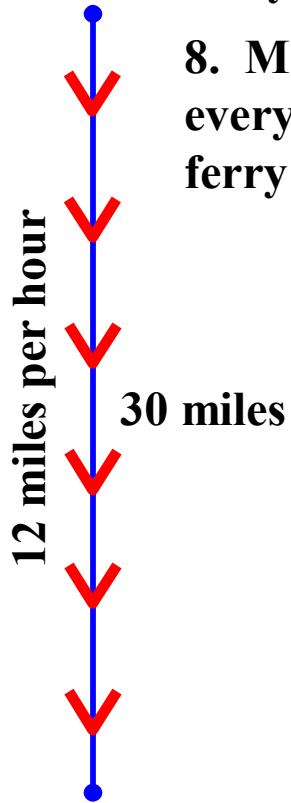
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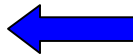
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Blue Fin Bay



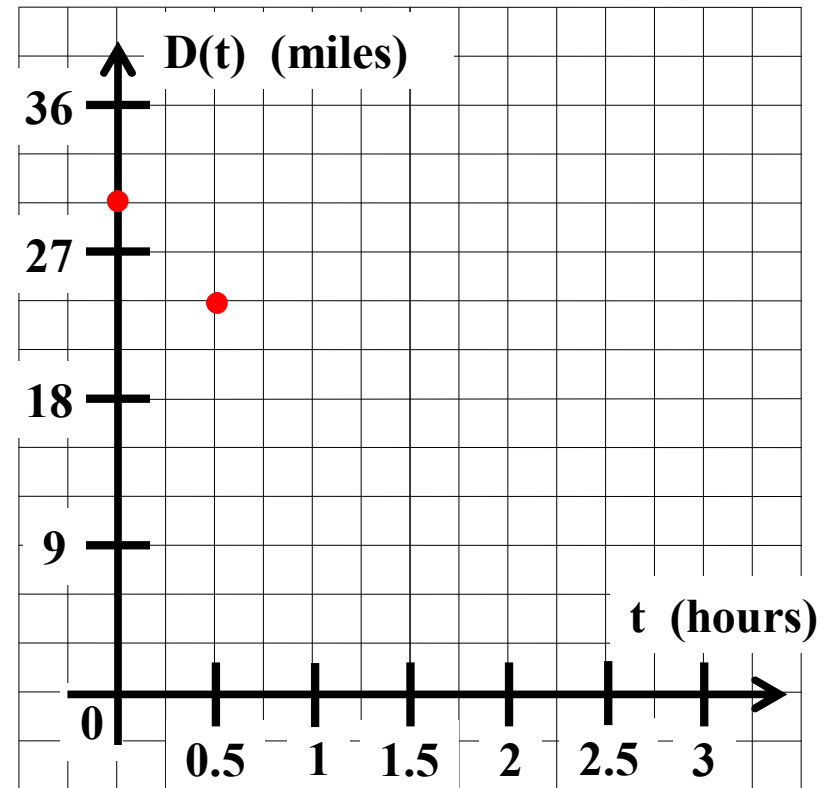
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Bird Island

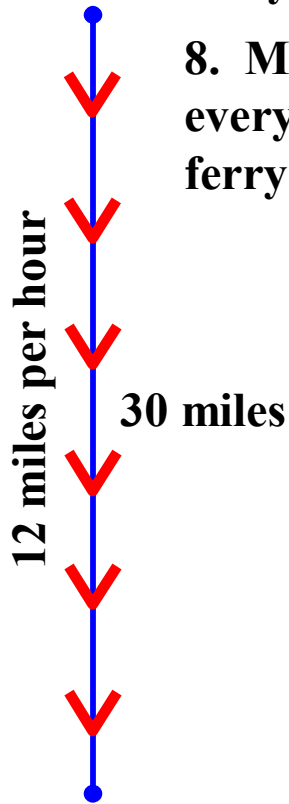
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Blue Fin Bay

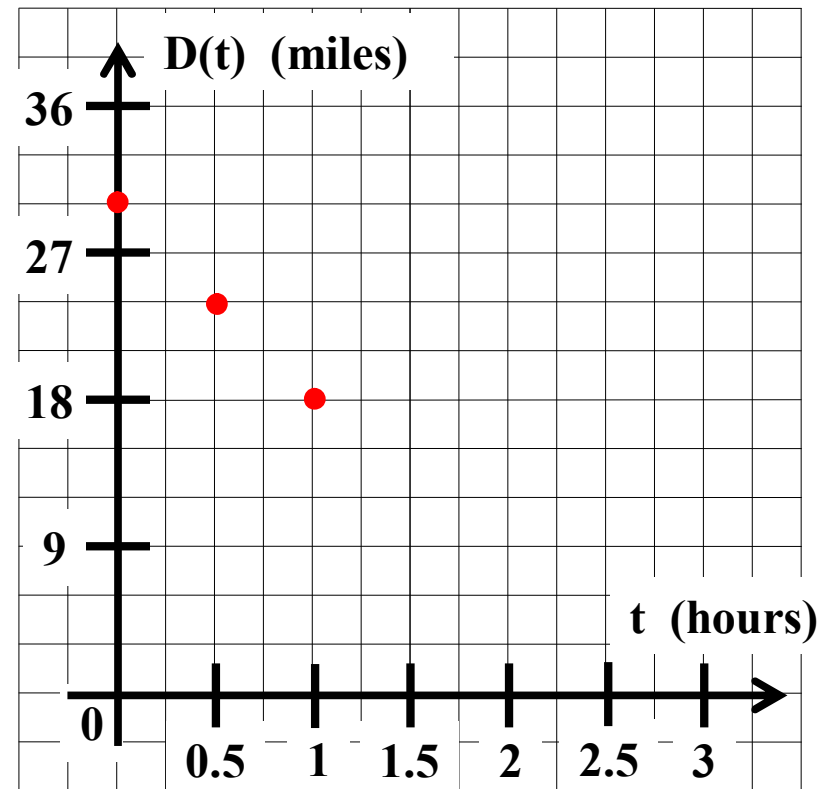


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0	30
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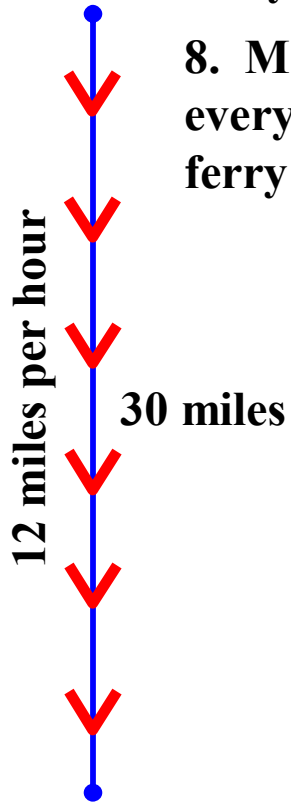


Bird Island

Algebra I Class Worksheet #4 Unit 8

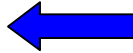
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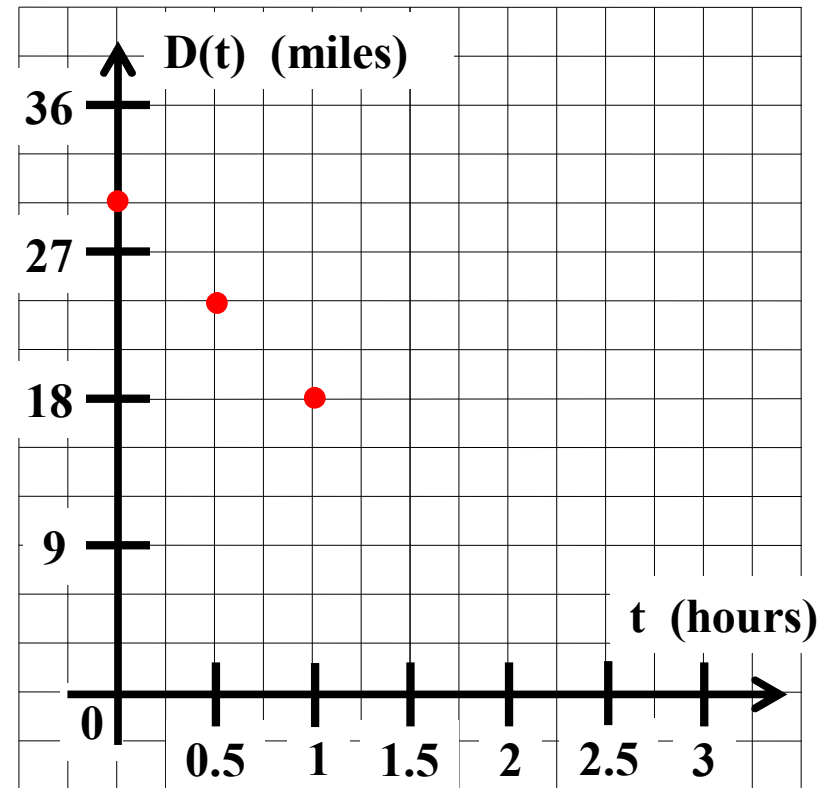


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0	30
0.5	24
1	18
1.5	12
2	6
2.5	0



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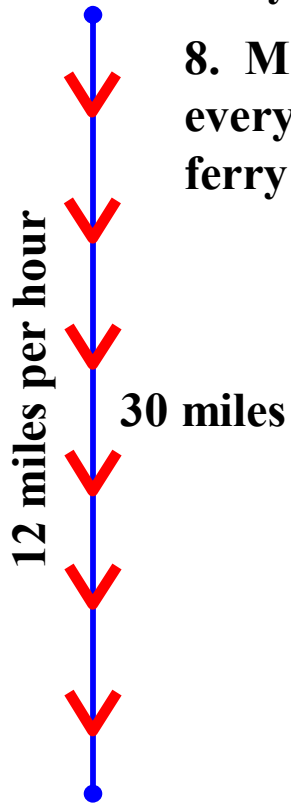


Bird Island

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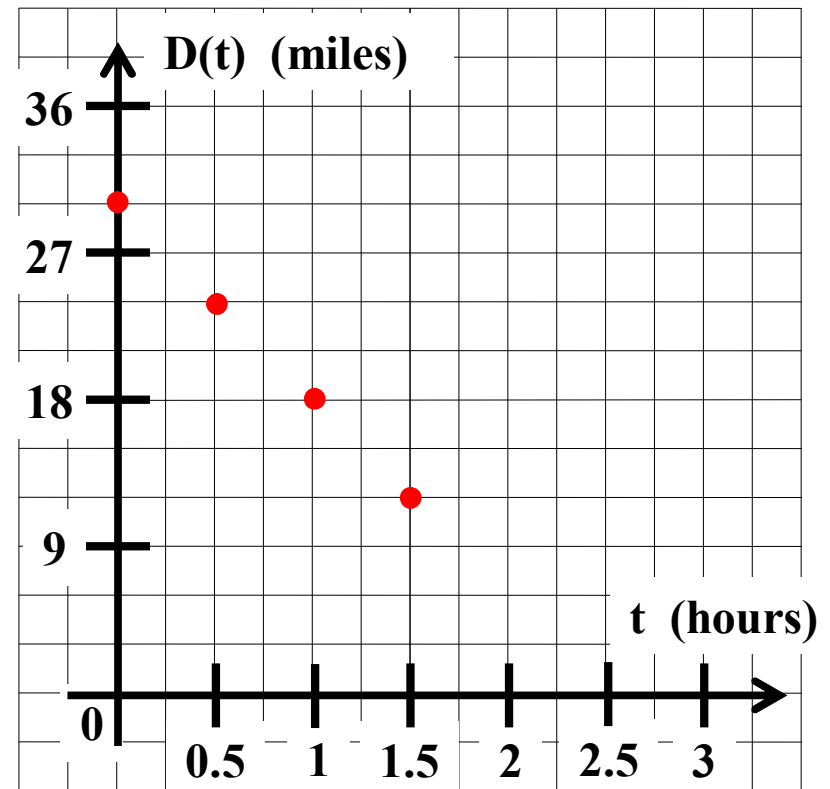


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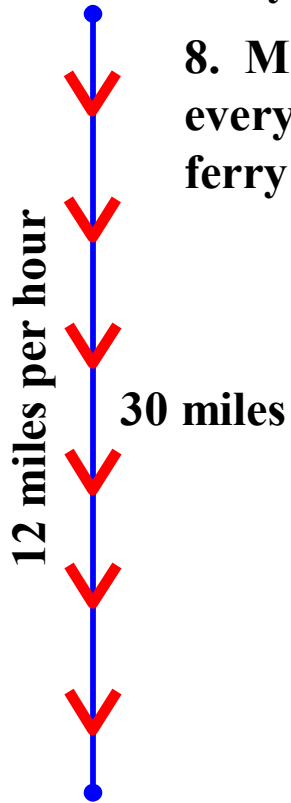


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Blue Fin Bay



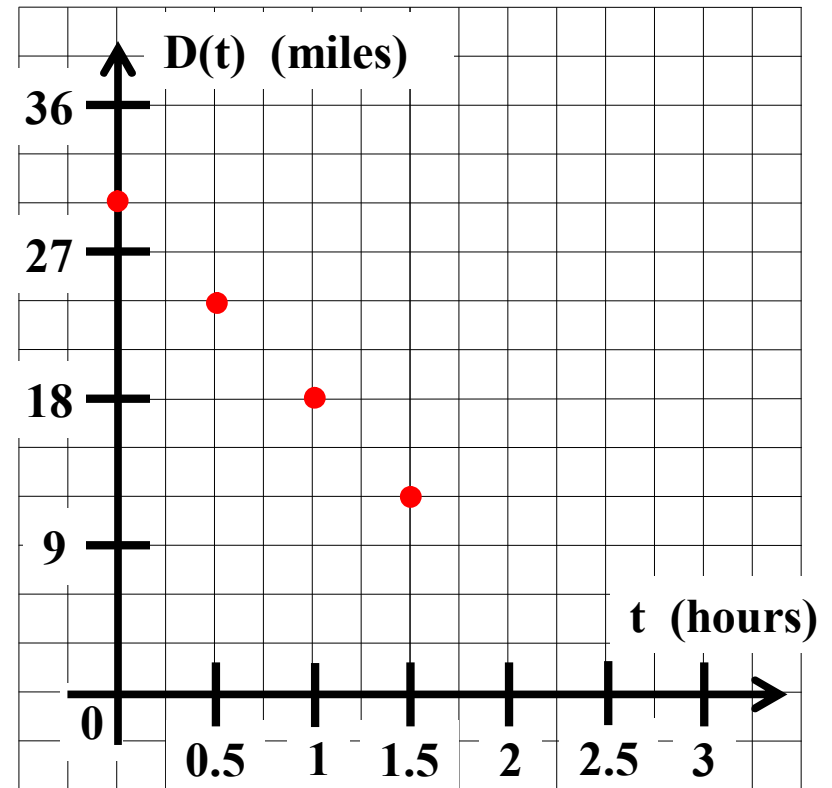
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Bird Island

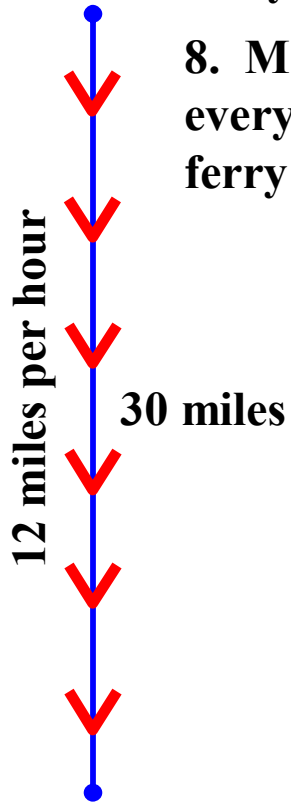
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Algebra I Class Worksheet #4 Unit 8

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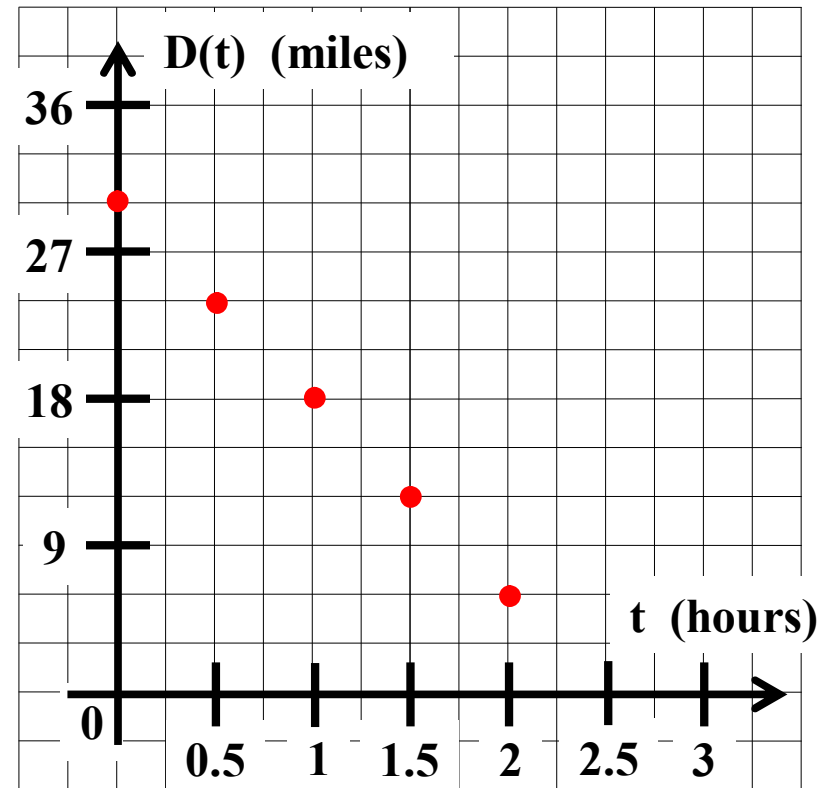
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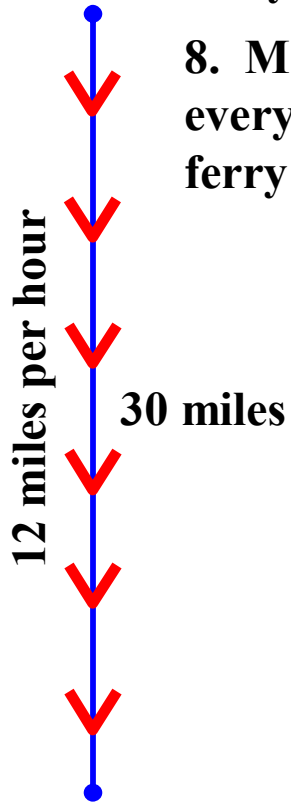
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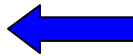
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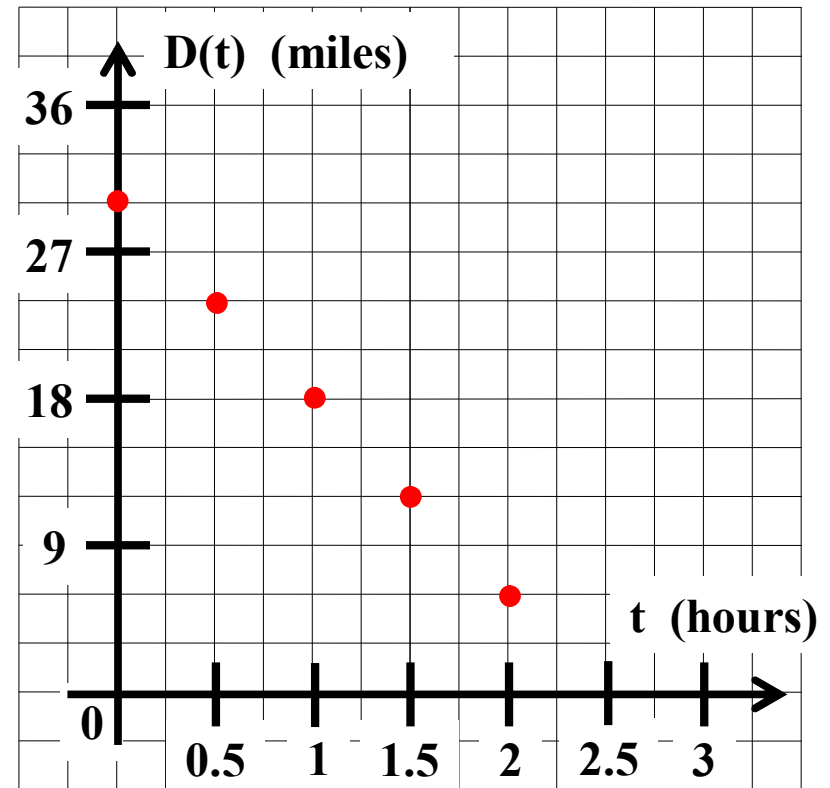
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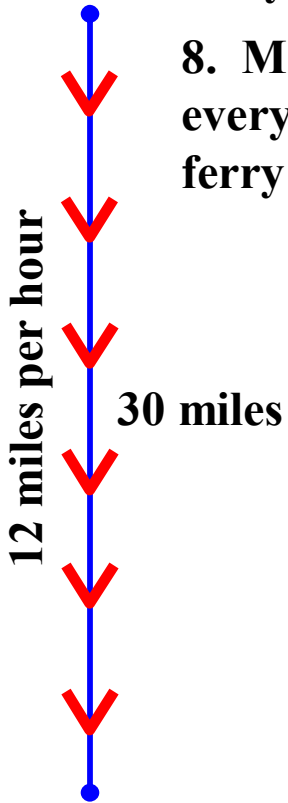
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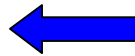
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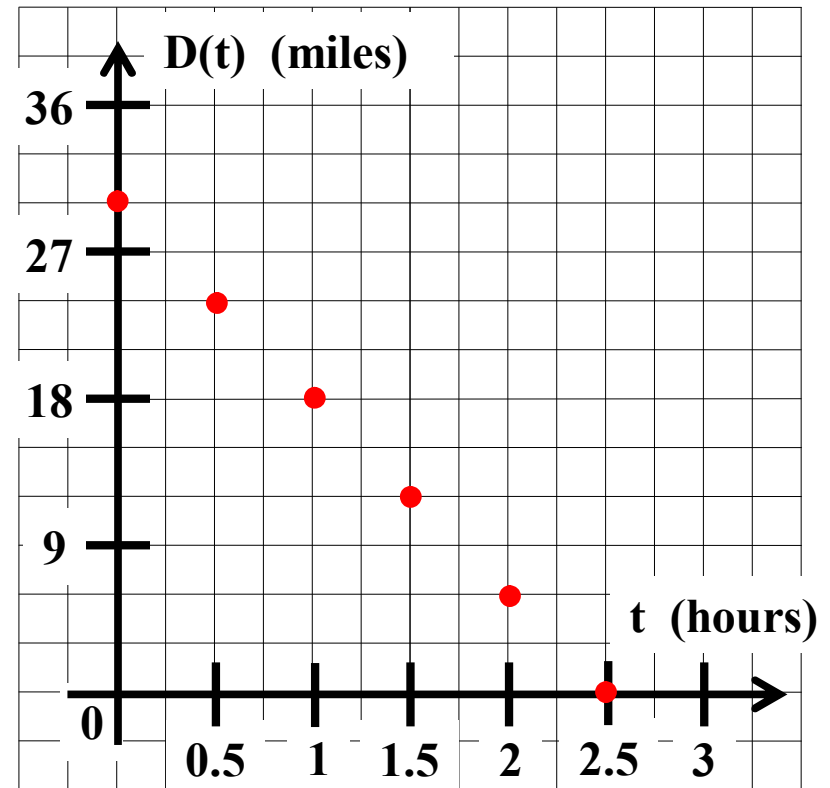
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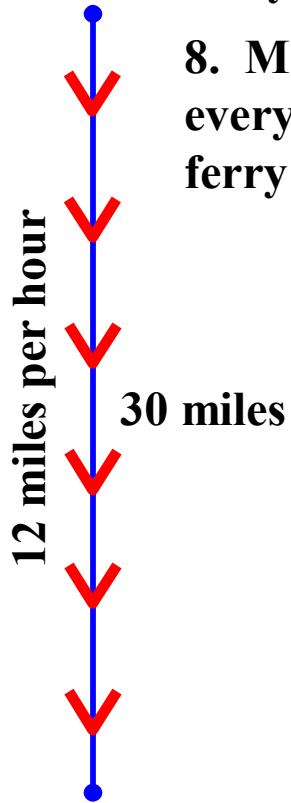
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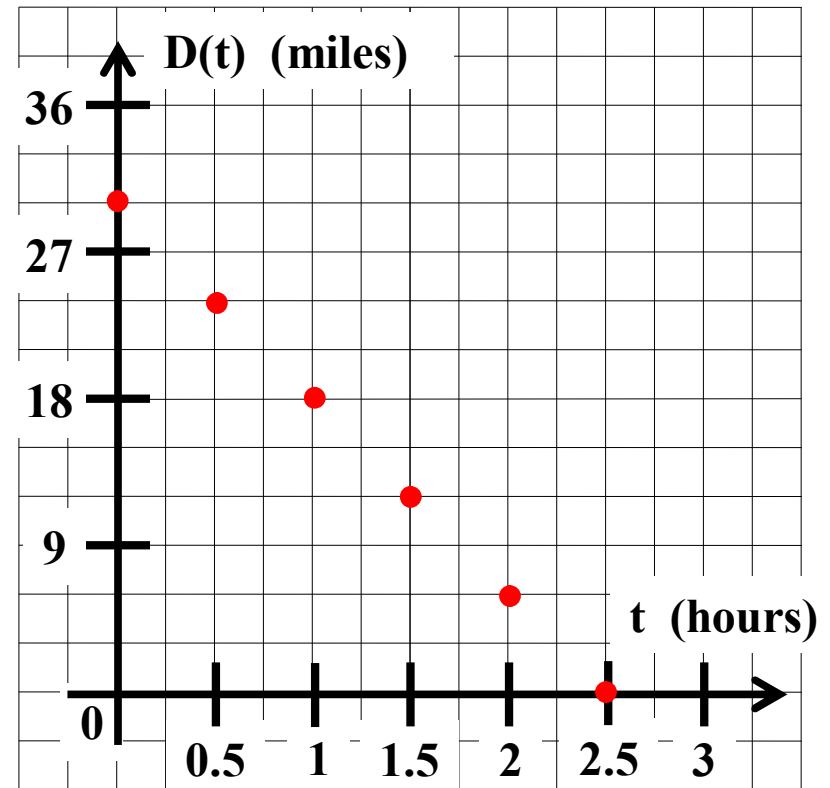


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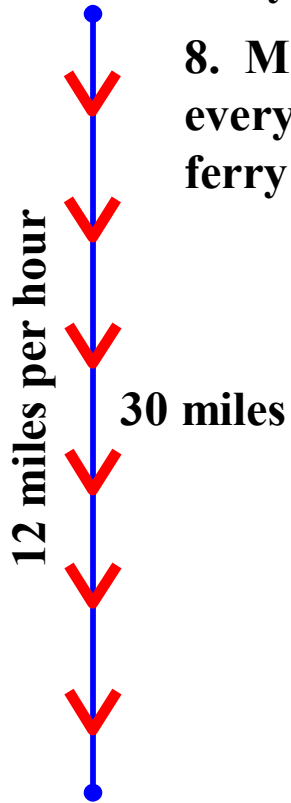
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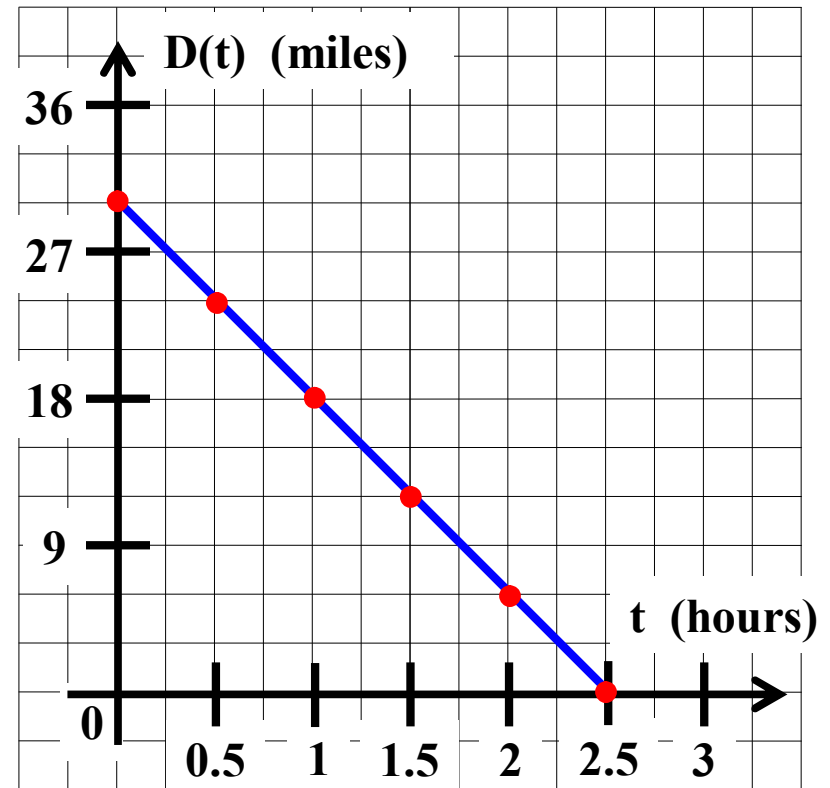


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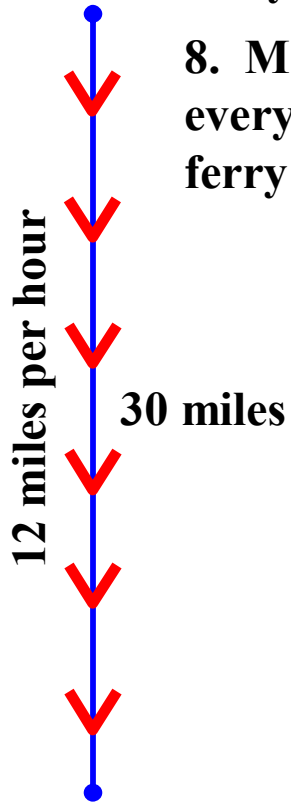
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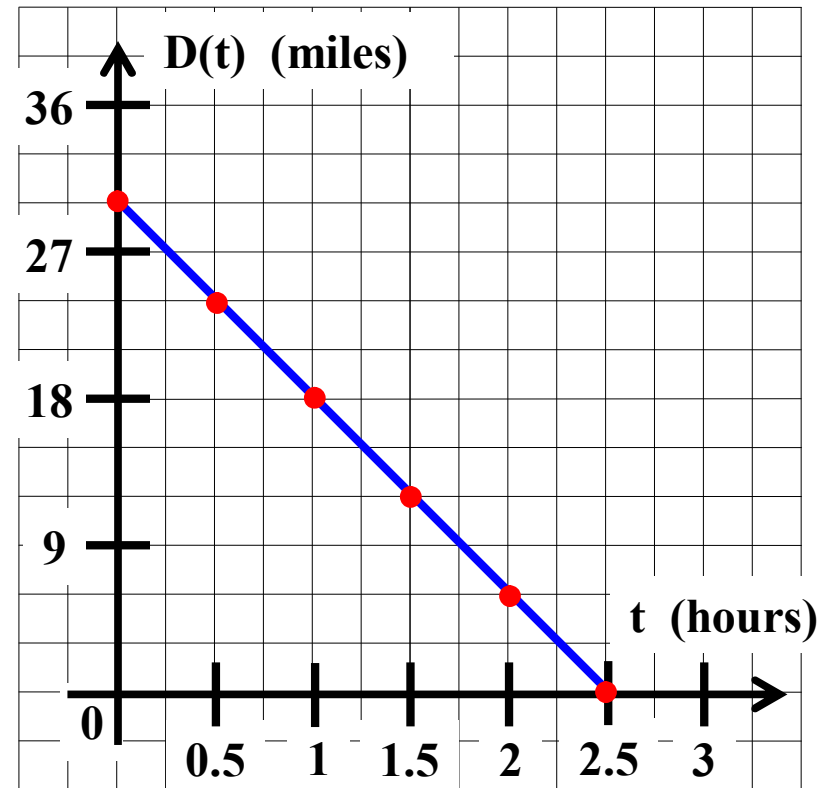


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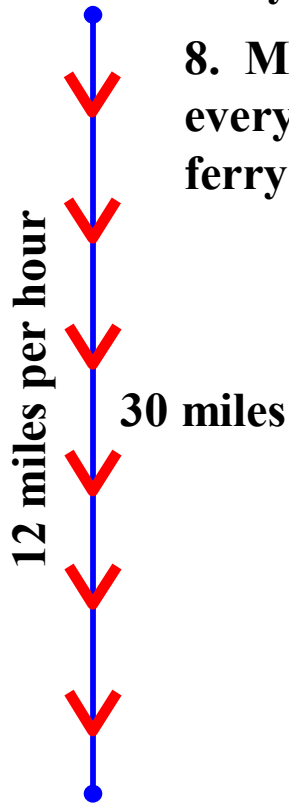
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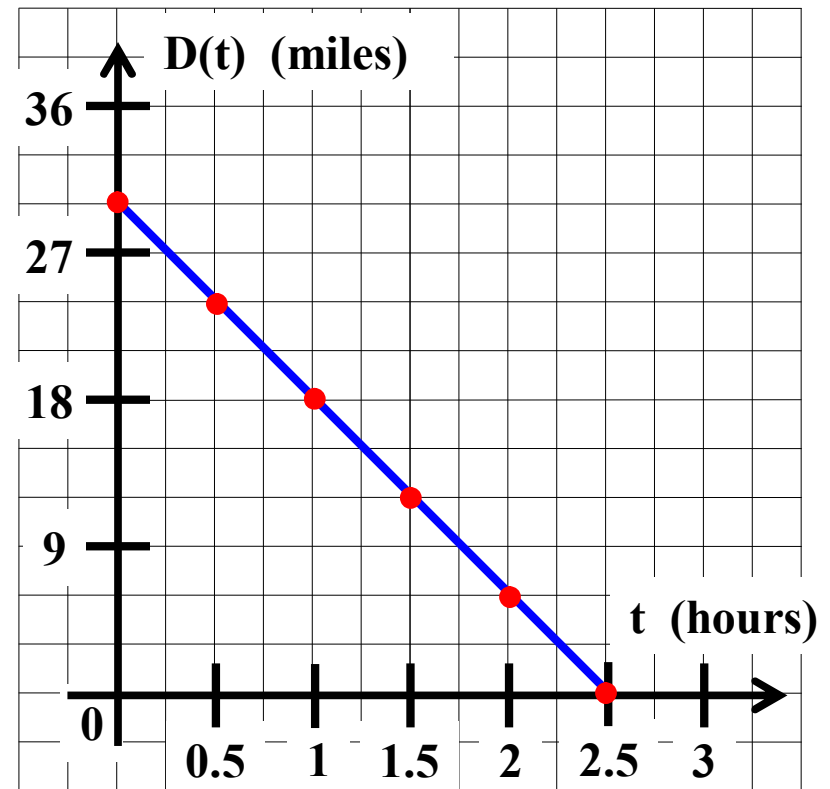


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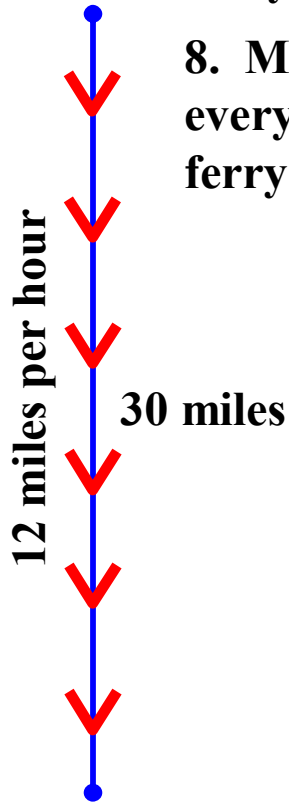


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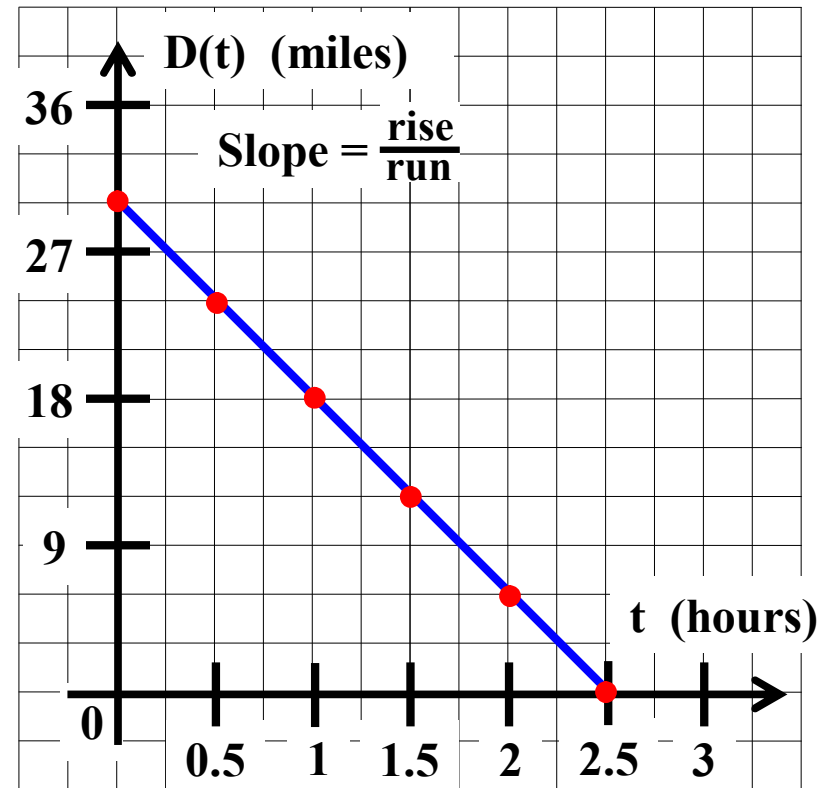


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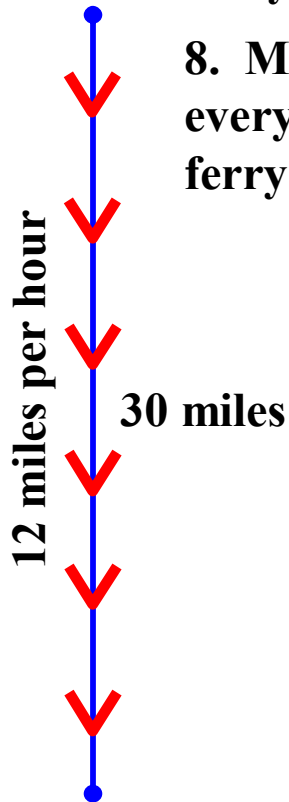


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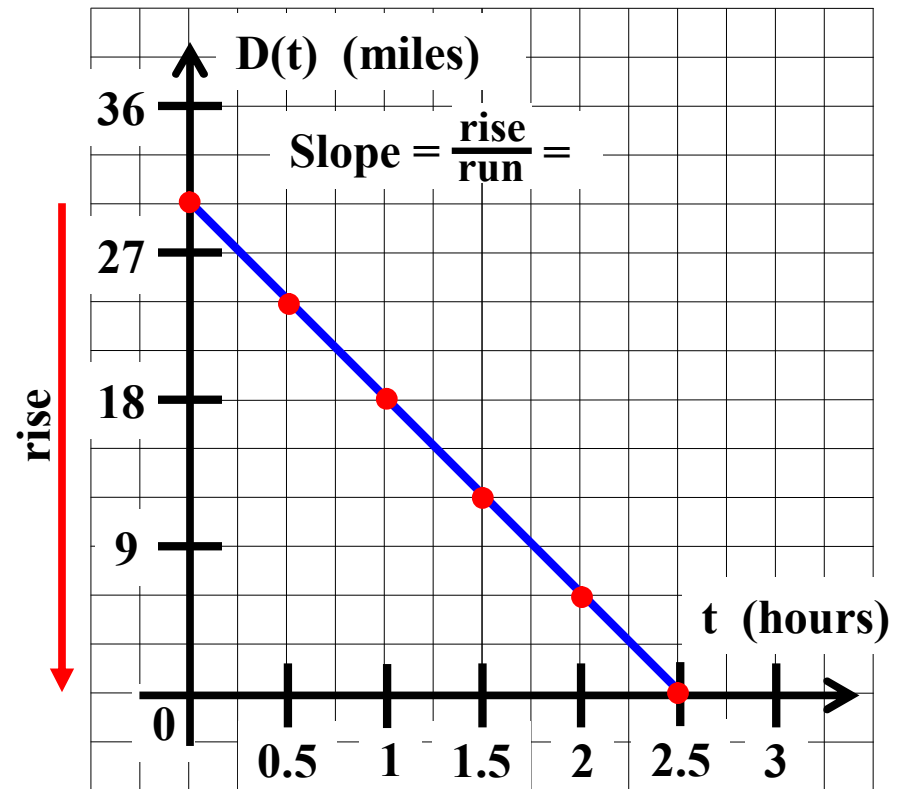


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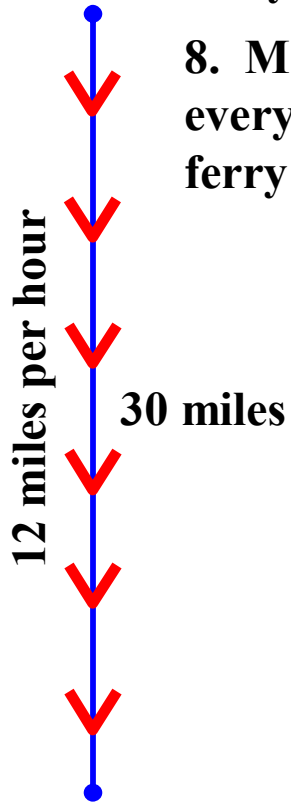


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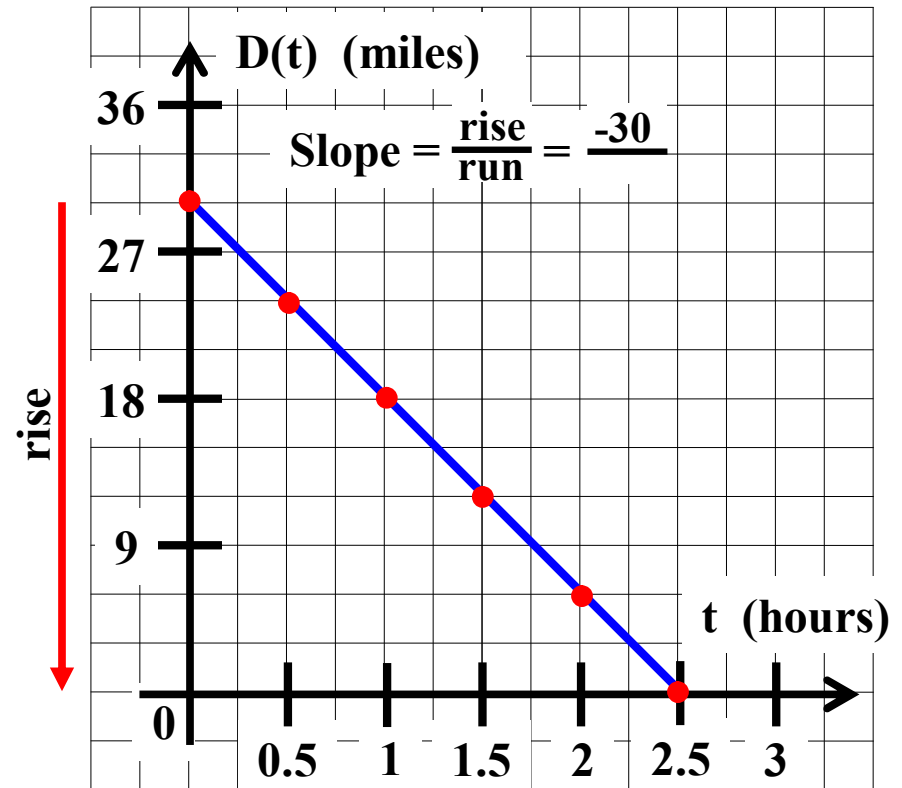


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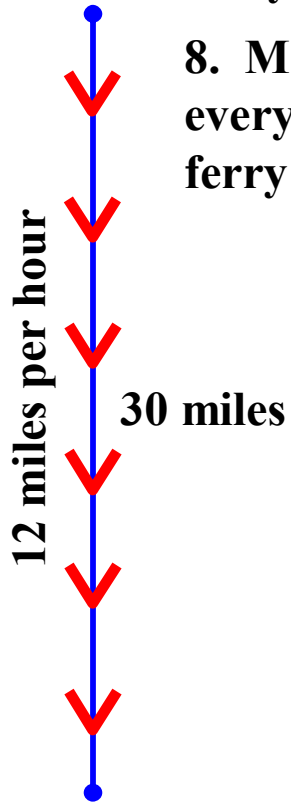


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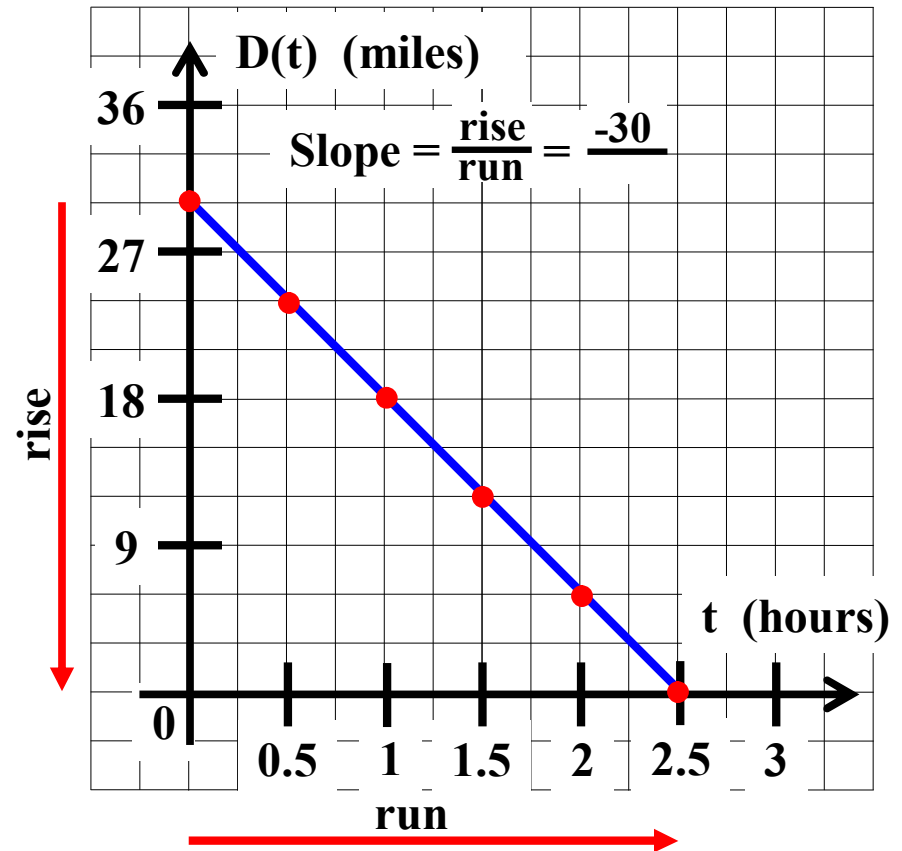


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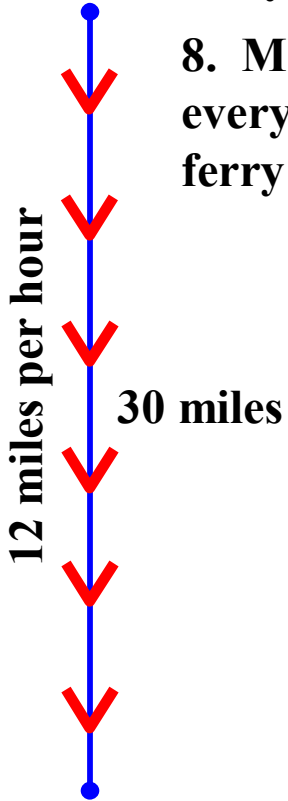


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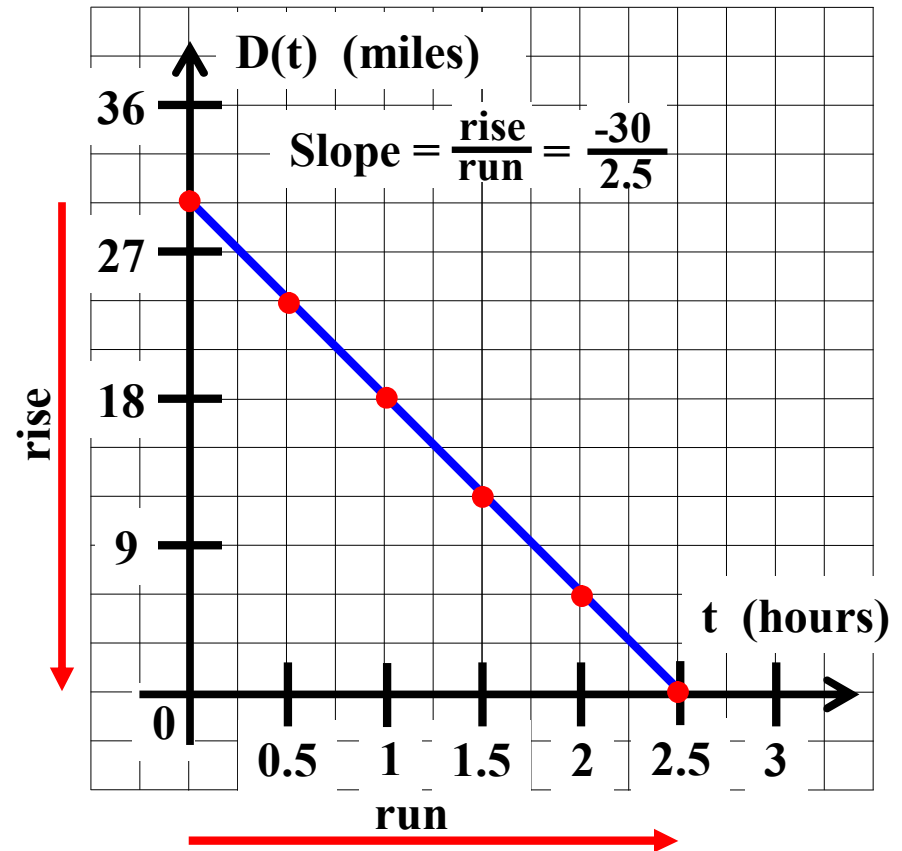


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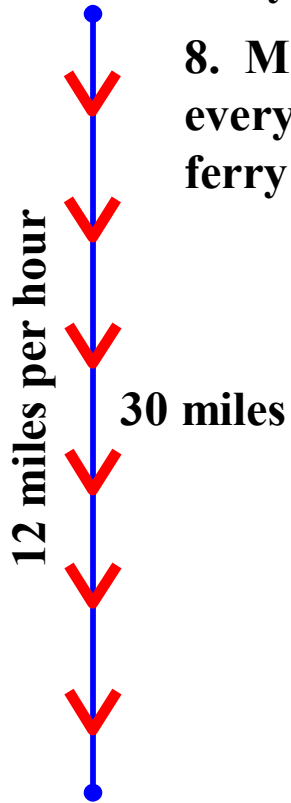


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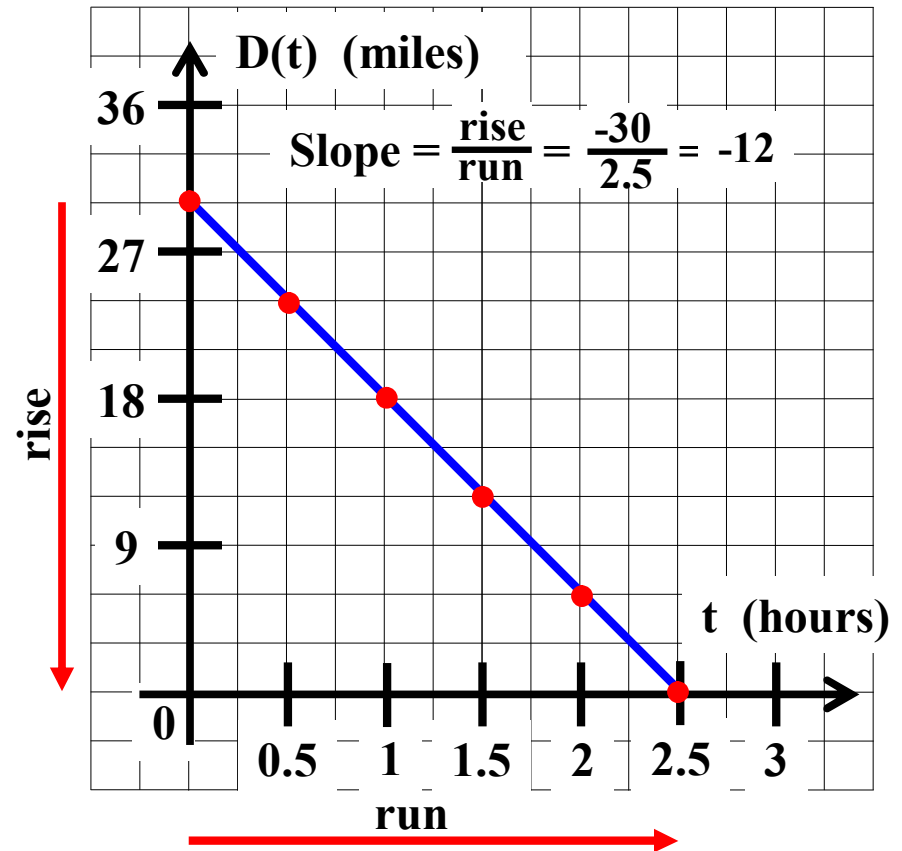


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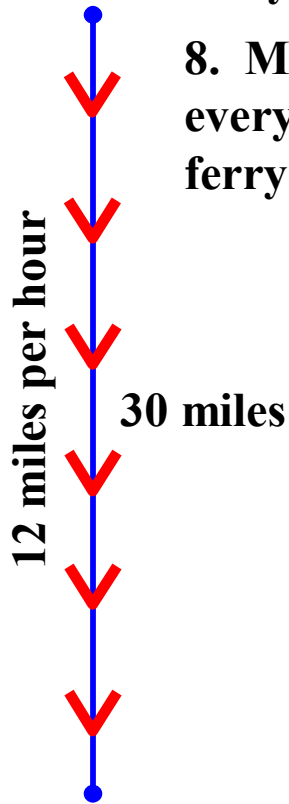


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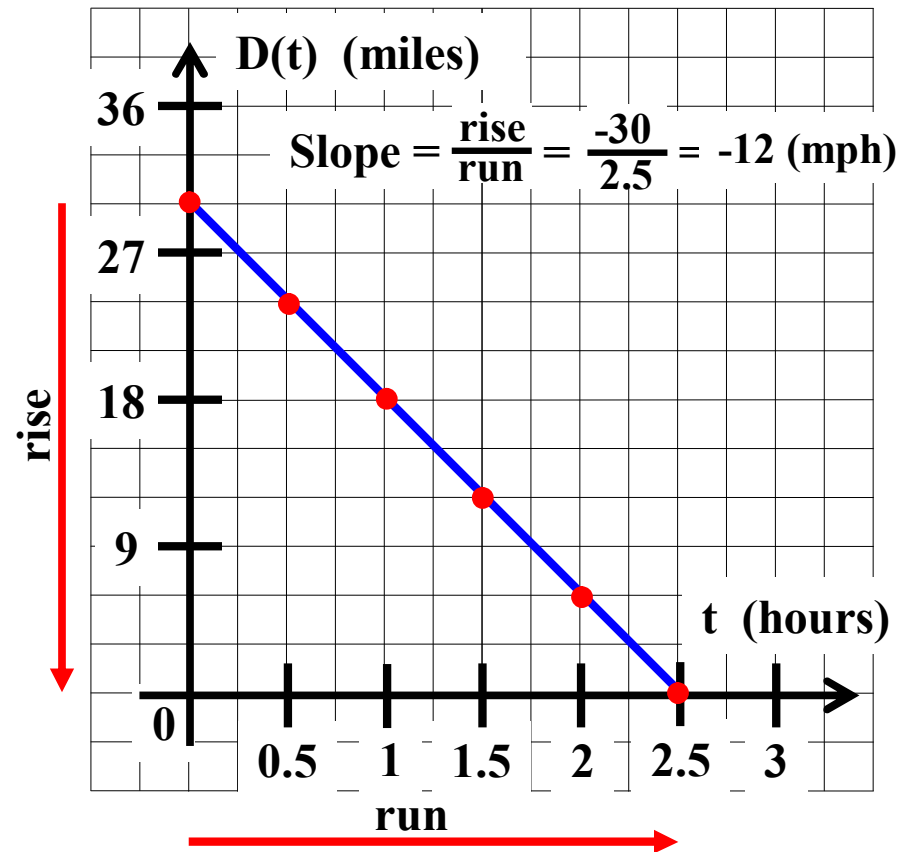


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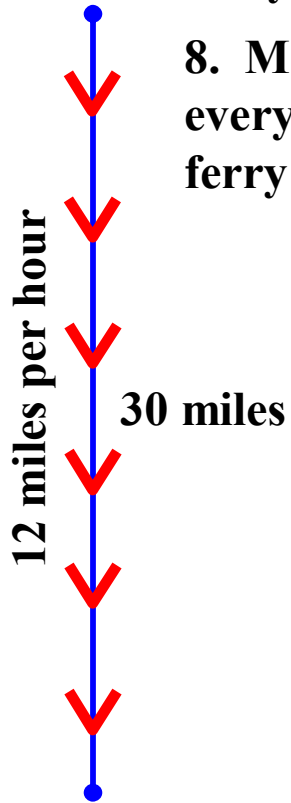


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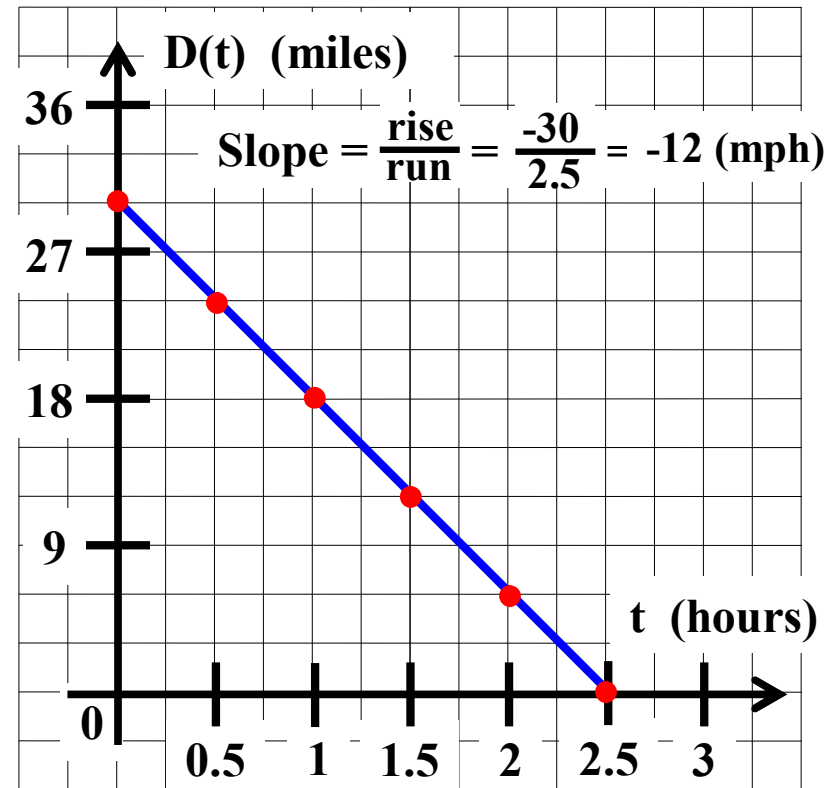


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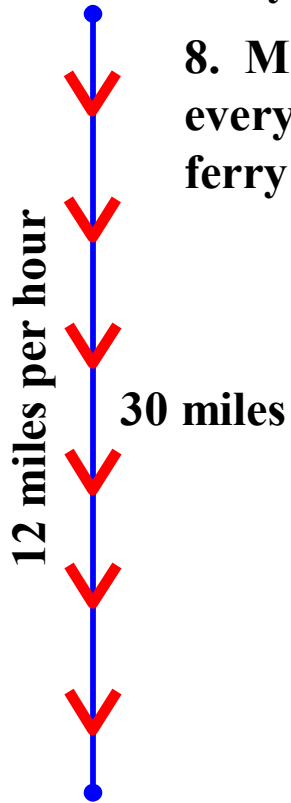


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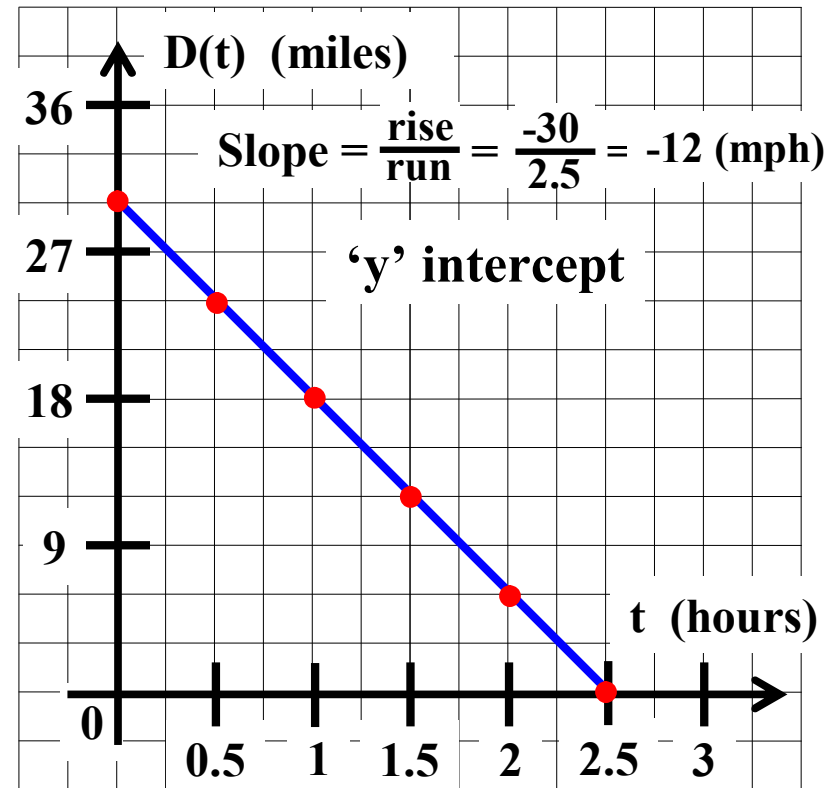


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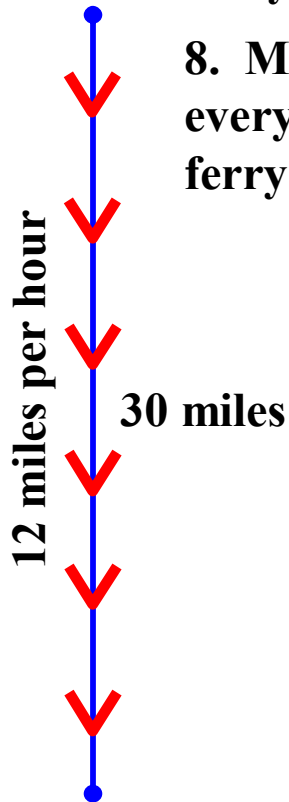


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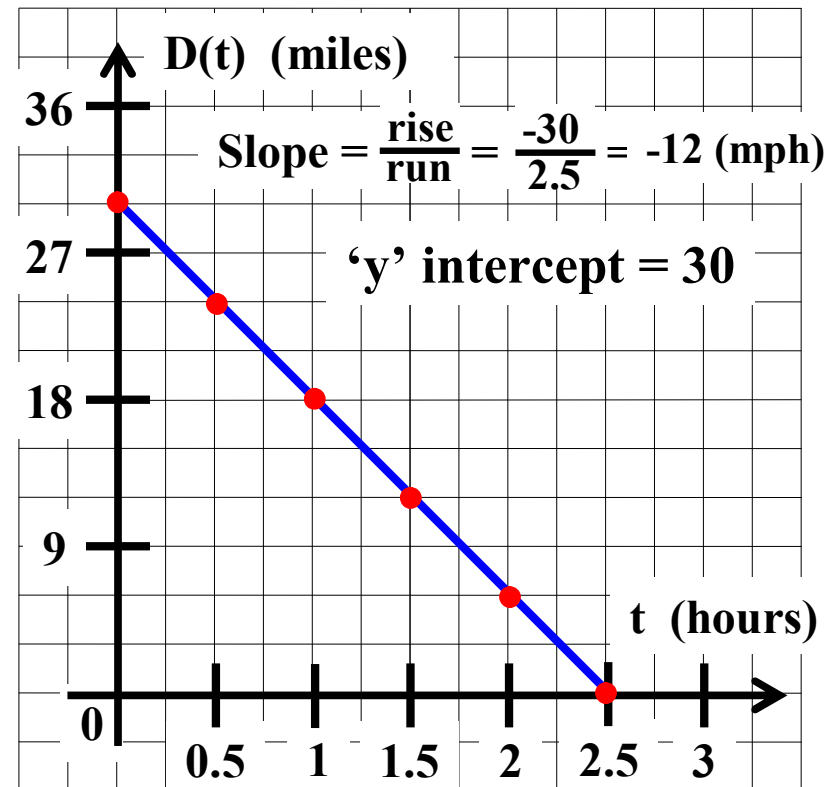


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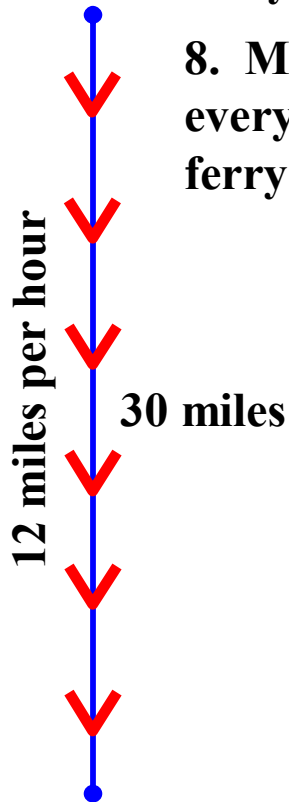


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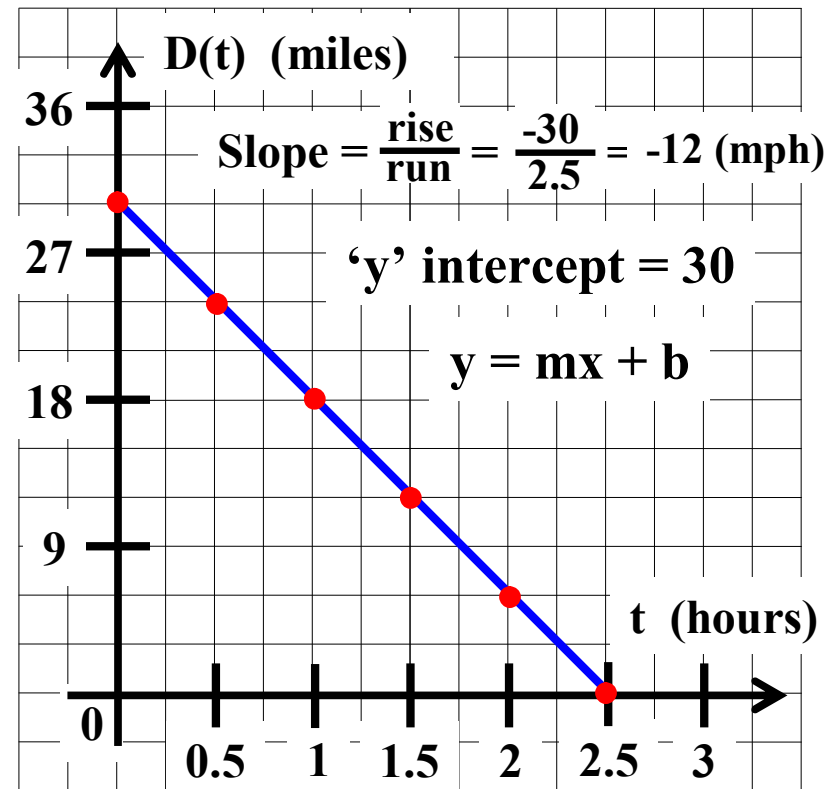


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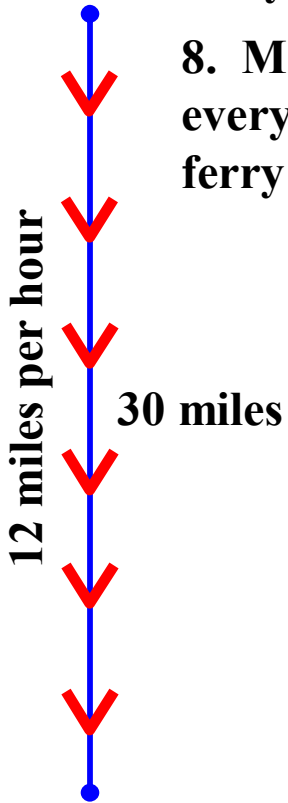


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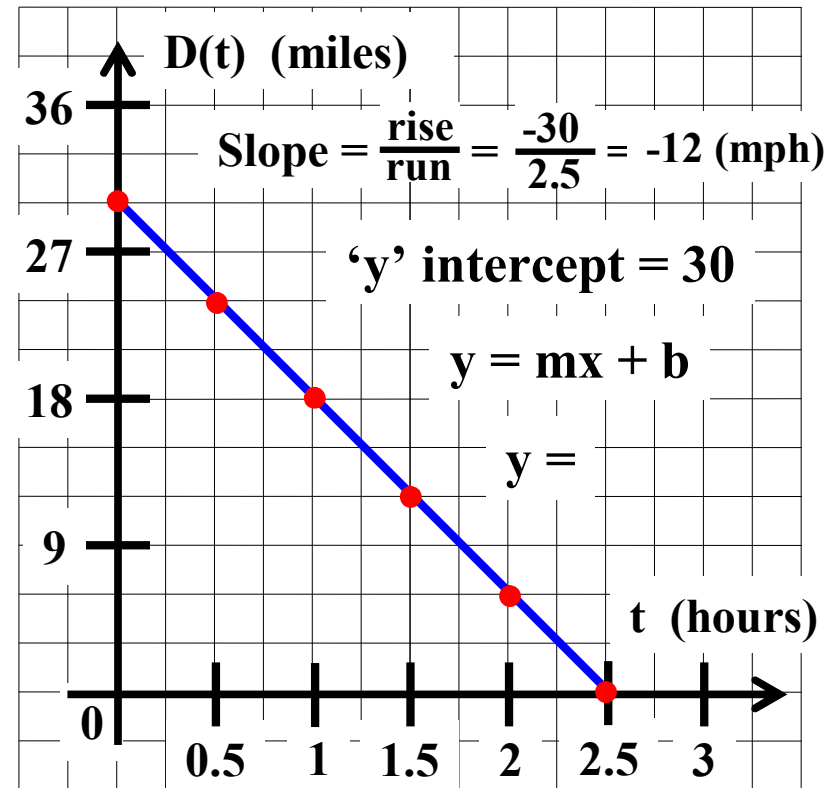


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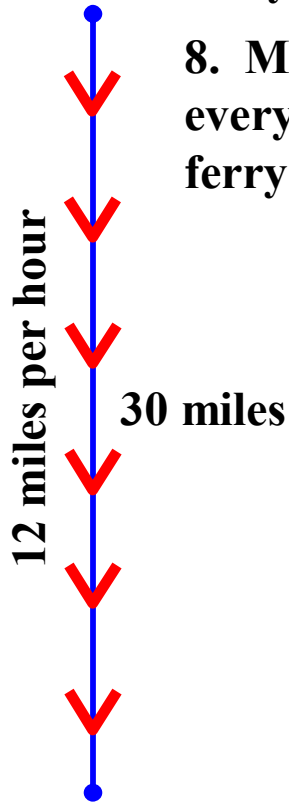


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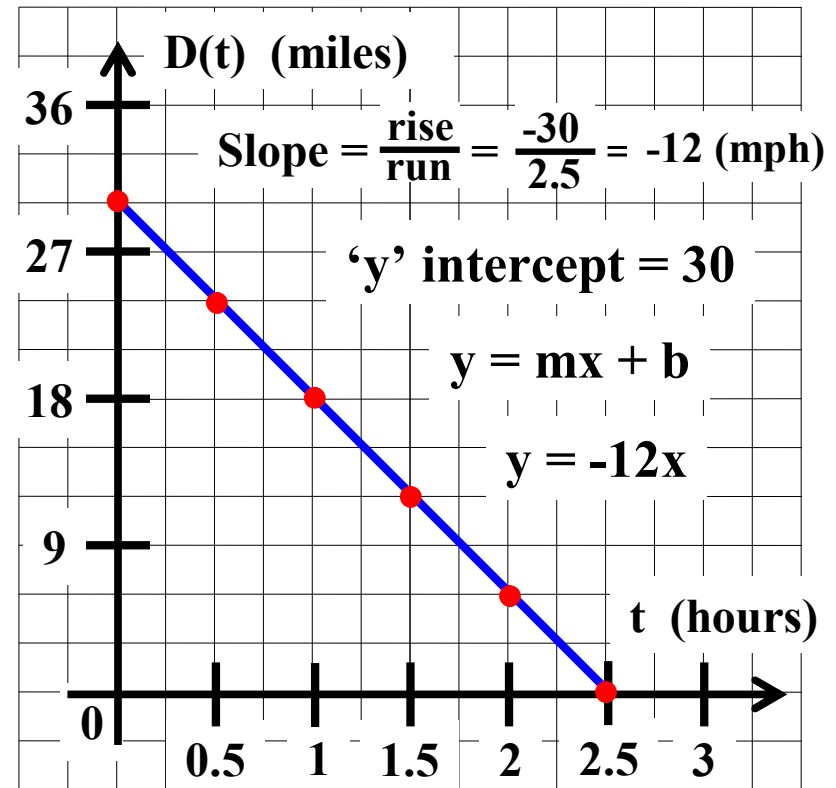


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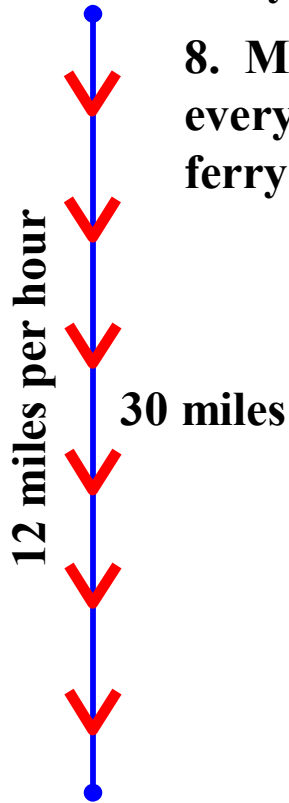


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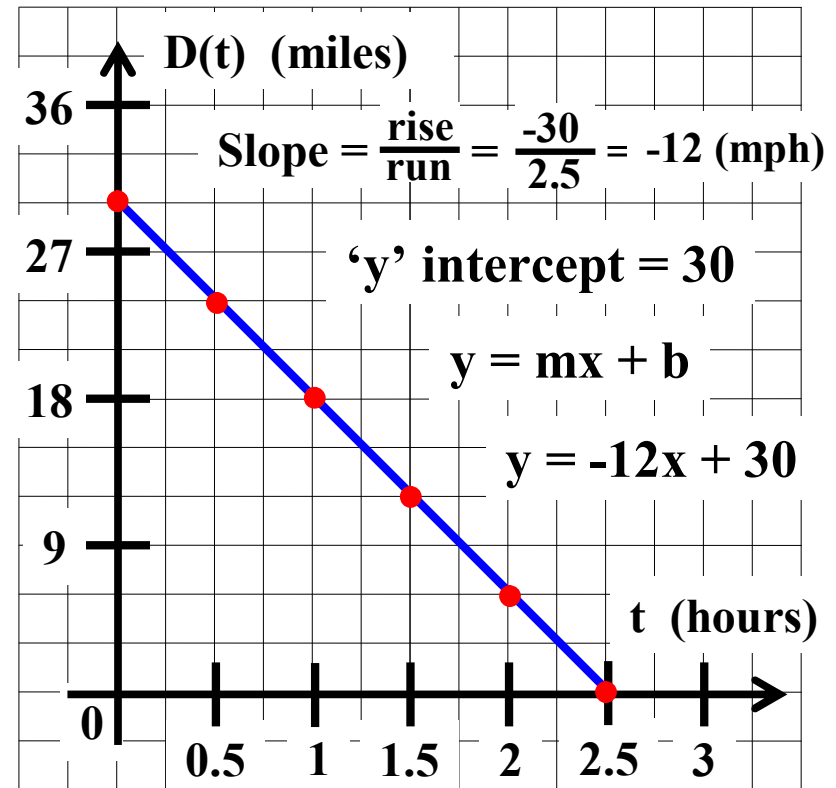


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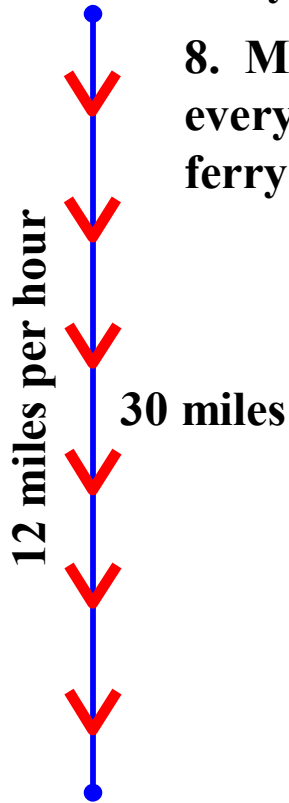


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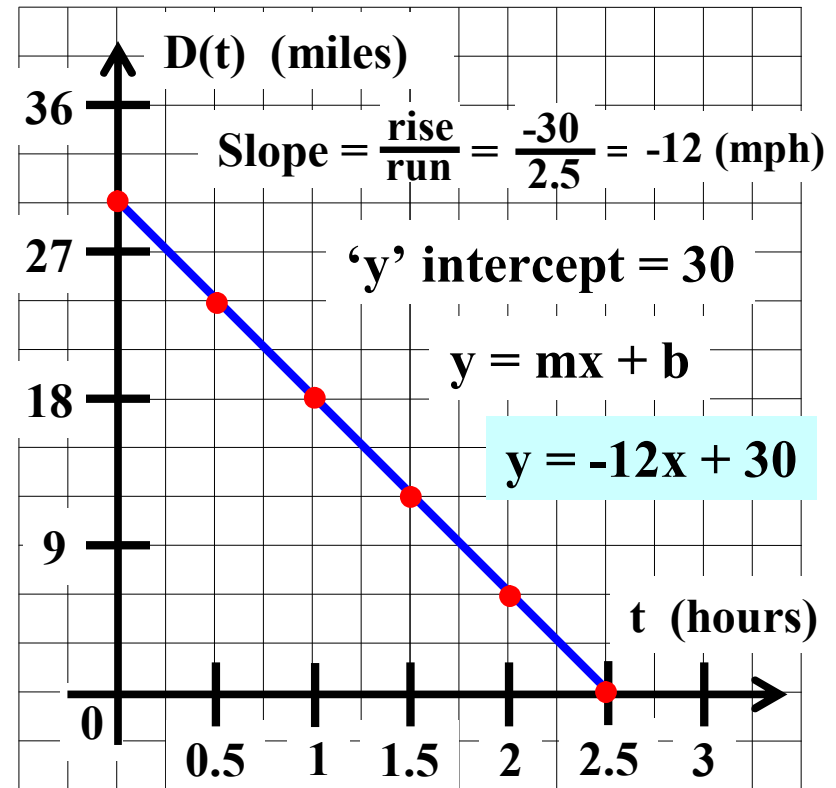


8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

9. Graph function D .

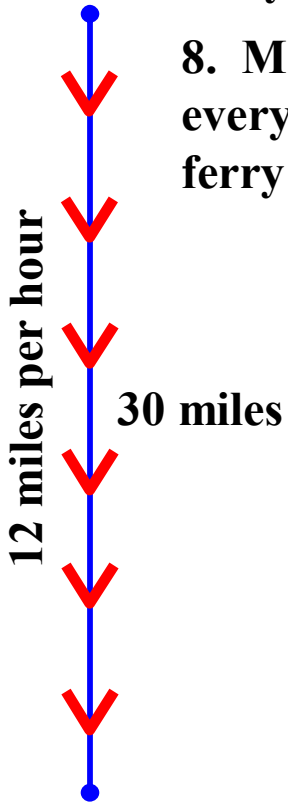


10. Write an equation giving $D(t)$ in terms of t .

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay

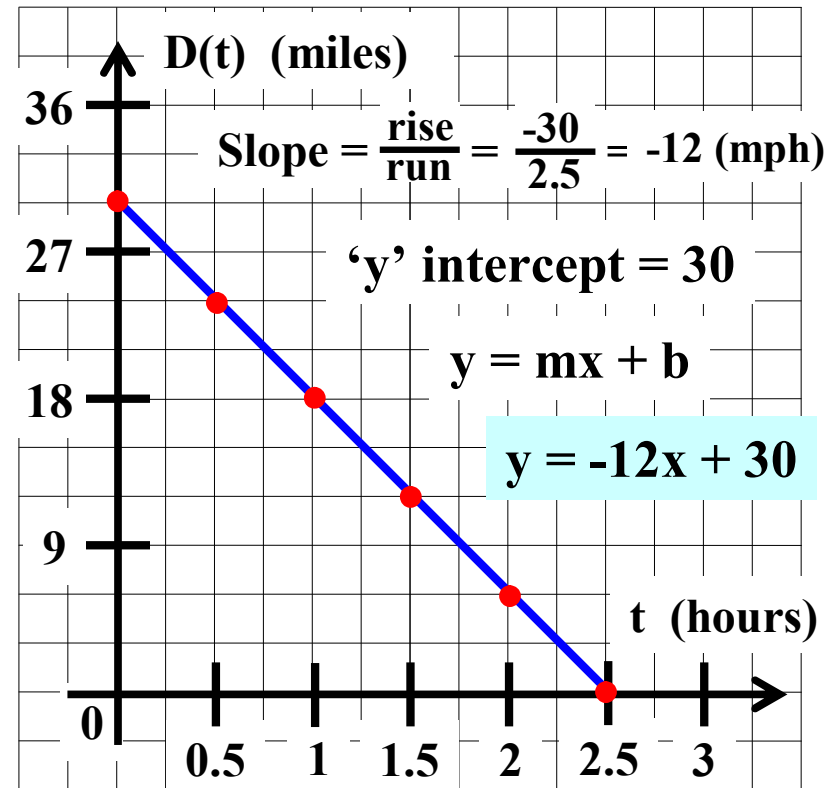


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0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

9. Graph function D .



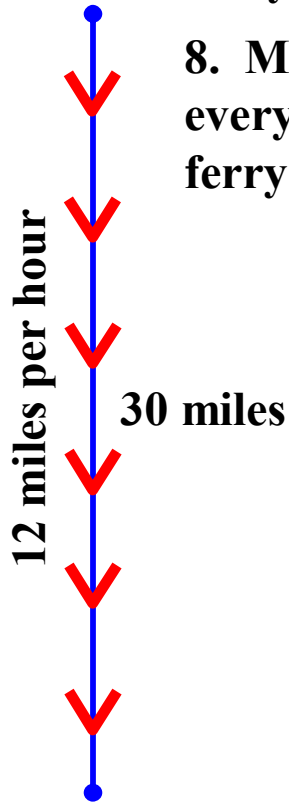
10. Write an equation giving $D(t)$ in terms of t .

$D(t)$

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay

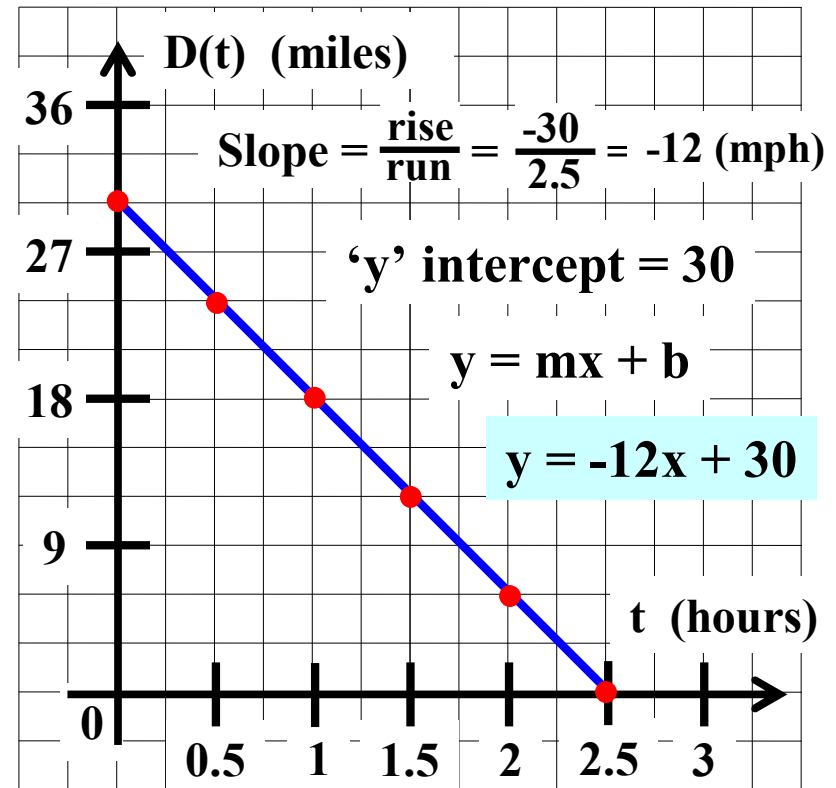


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0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

9. Graph function D .



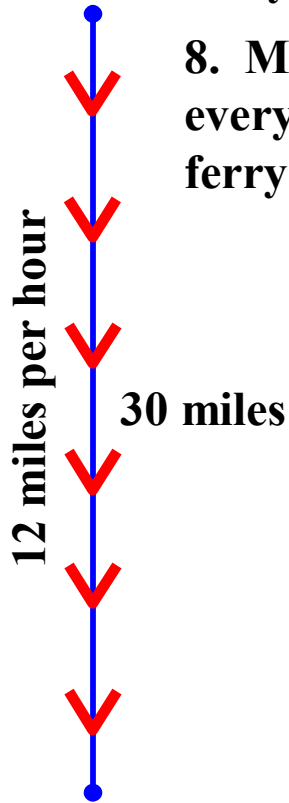
10. Write an equation giving $D(t)$ in terms of t .

$D(t) =$

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay

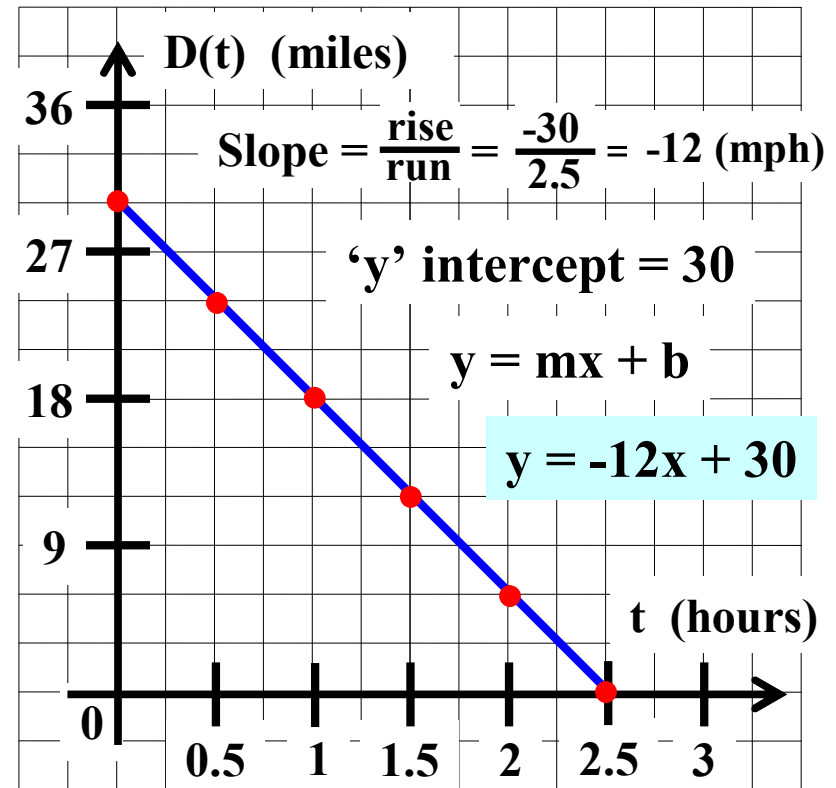


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0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

9. Graph function D .



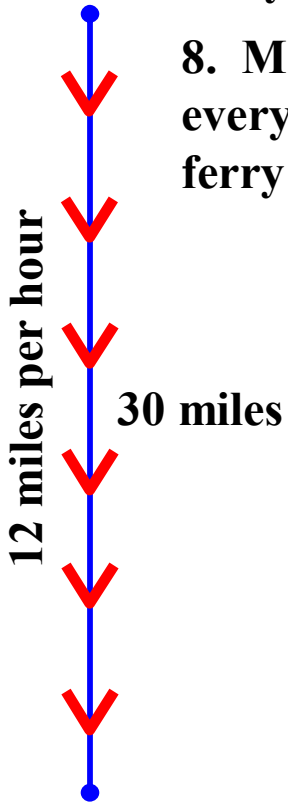
10. Write an equation giving $D(t)$ in terms of t .

$$D(t) = -12t$$

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay

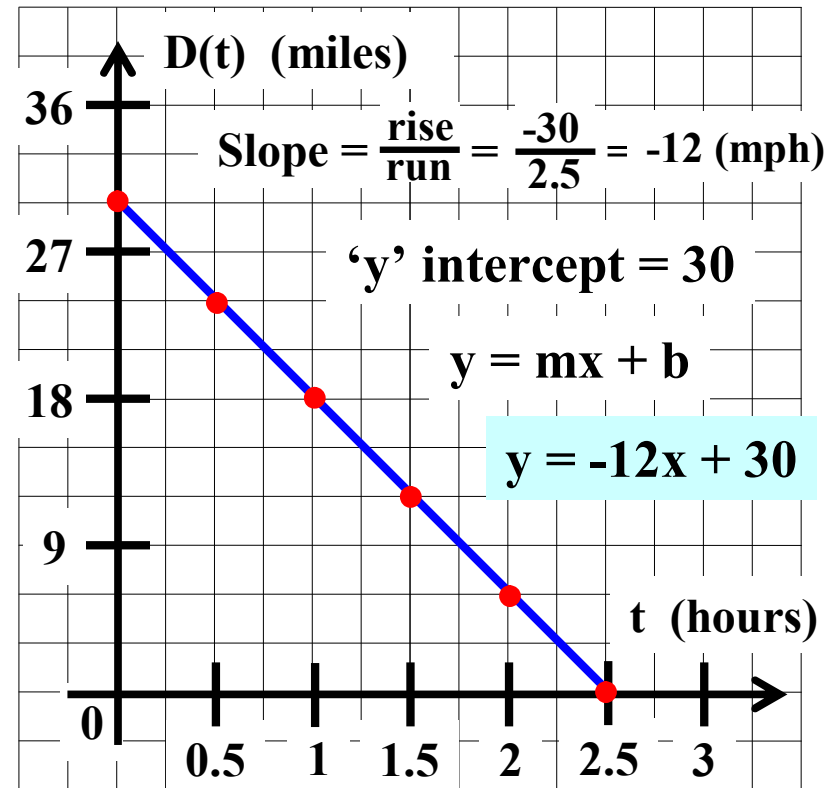


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0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

9. Graph function D .



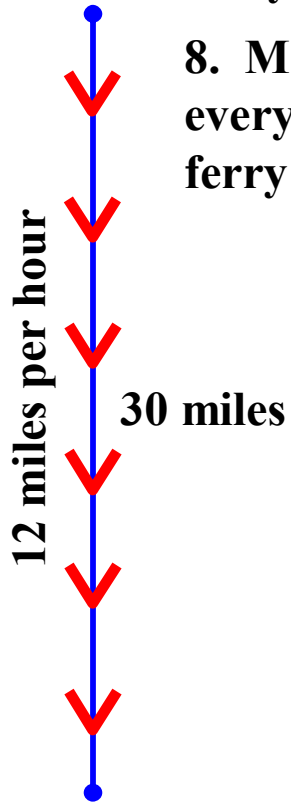
10. Write an equation giving $D(t)$ in terms of t .

$$D(t) = -12t + 30$$

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay

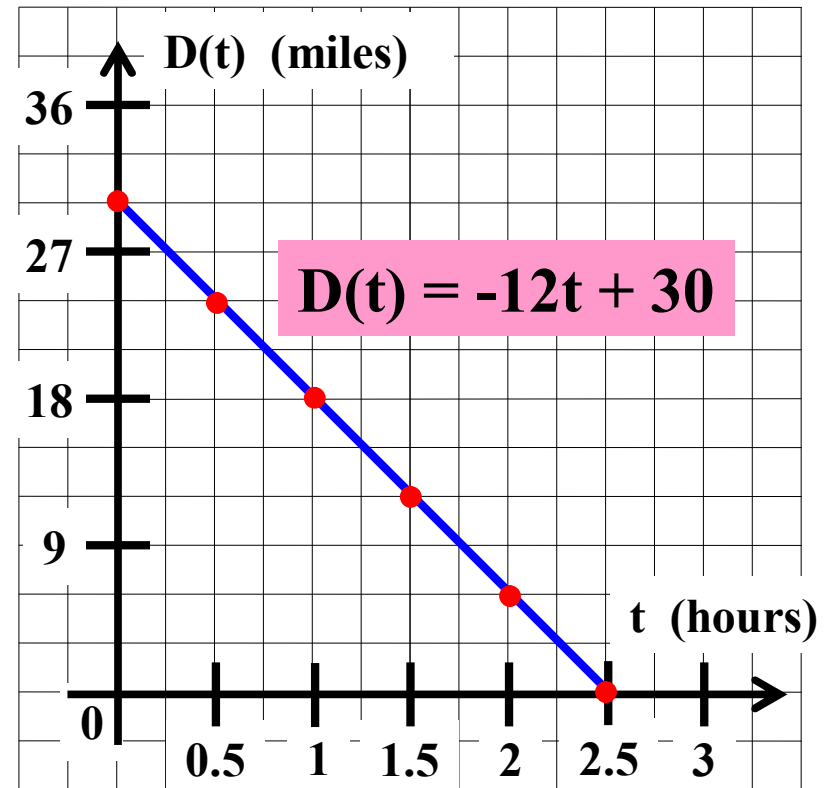


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Bird Island

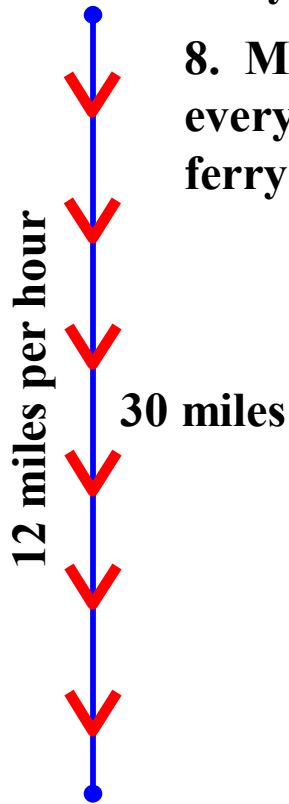
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Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay

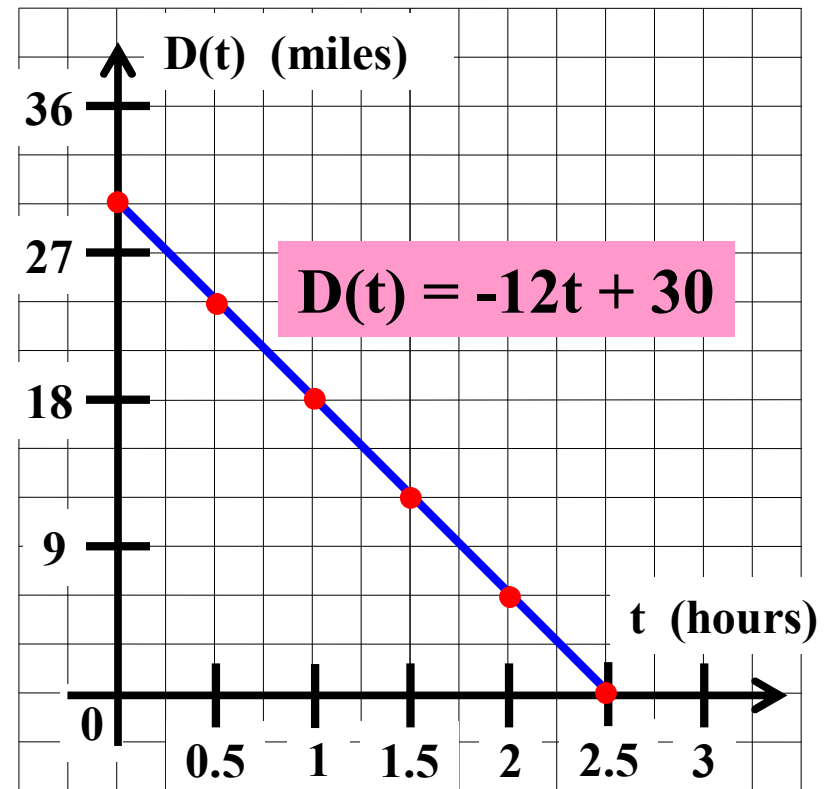


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0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

9. Graph function D .

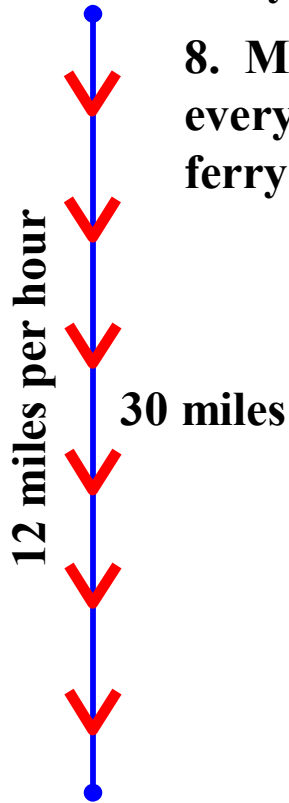


11. Write an inequality to describe the domain of function D .

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay

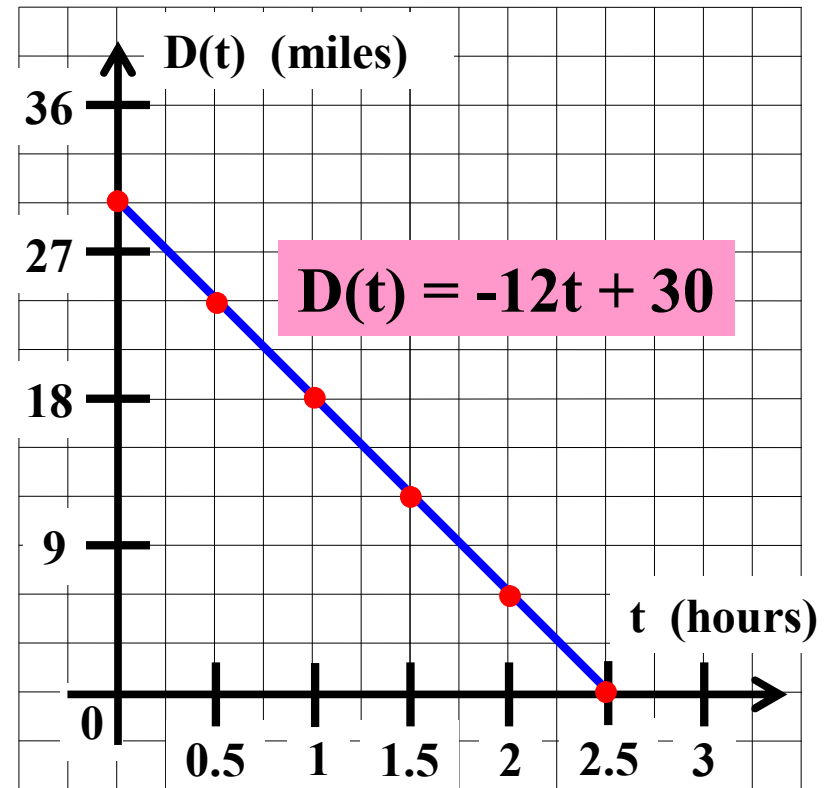


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0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island

9. Graph function D .

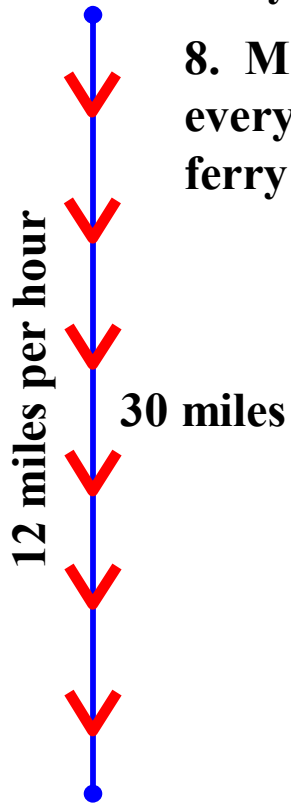


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Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay

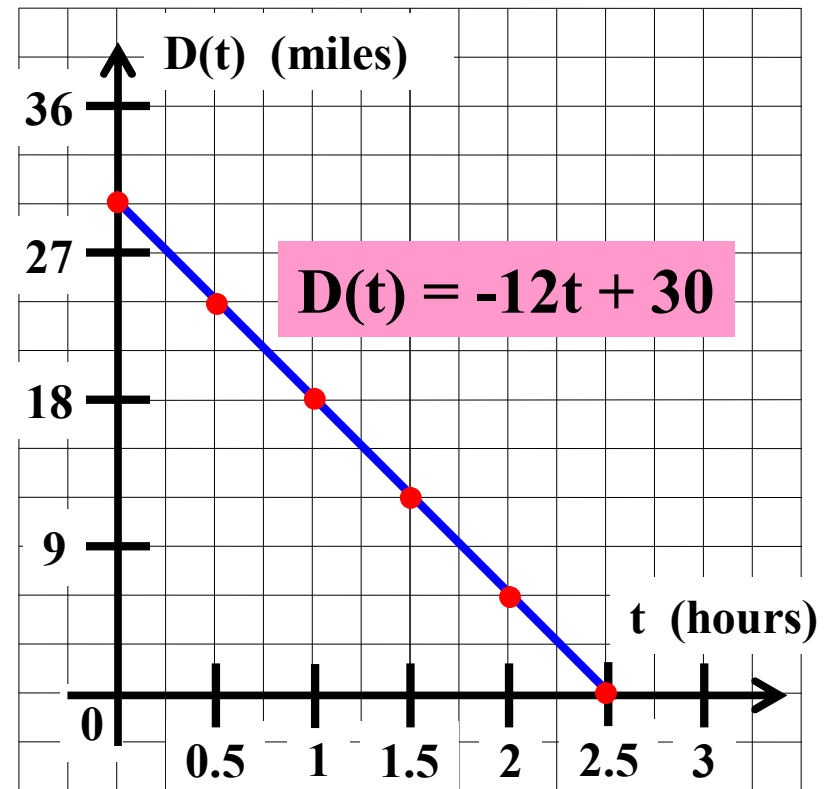


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1	18
1.5	12
2	6
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Bird Island

9. Graph function D .



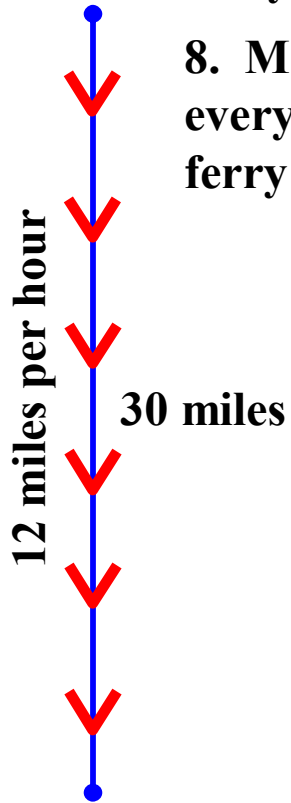
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0

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay



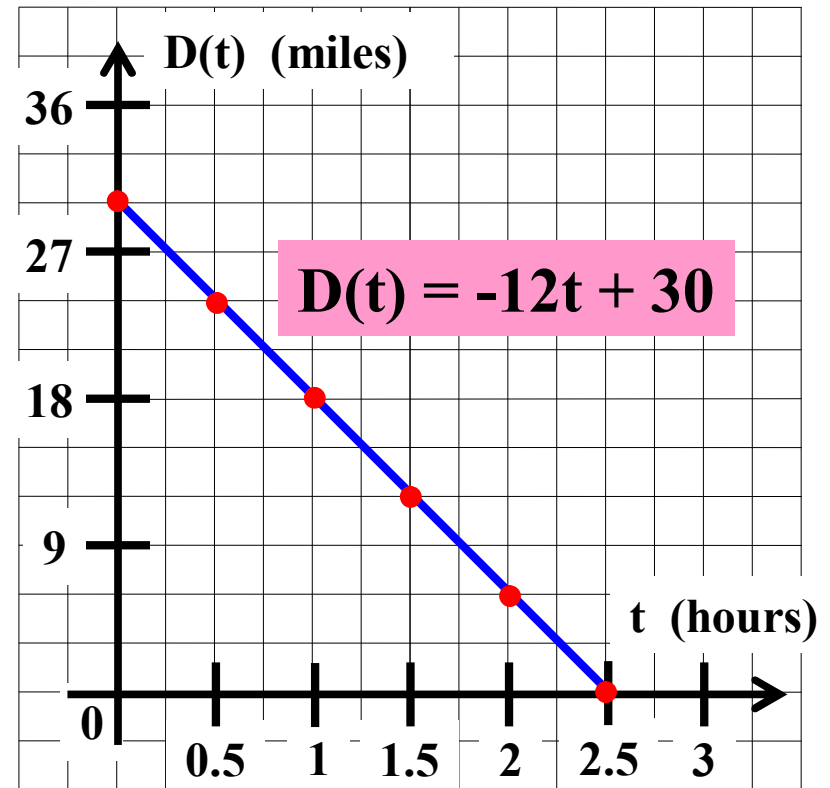
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0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island



9. Graph function D .



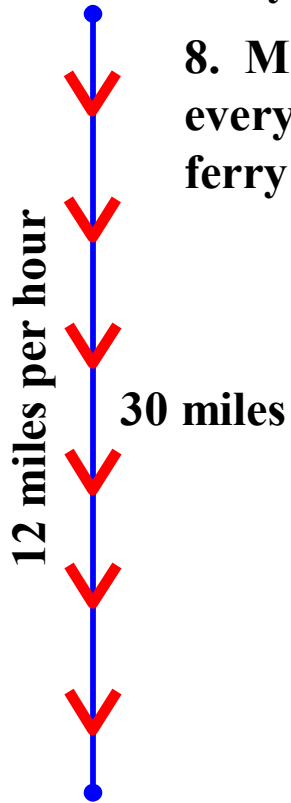
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$0 \leq$

Algebra I Class Worksheet #4 Unit 8

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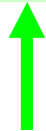
Blue Fin Bay



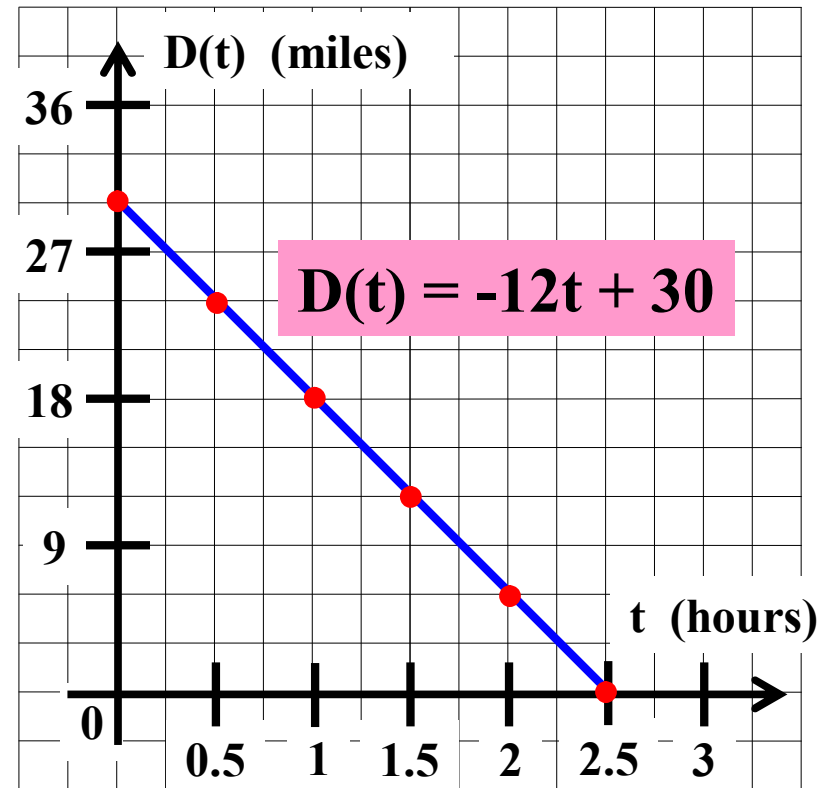
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0.5	24
1	18
1.5	12
2	6
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Bird Island



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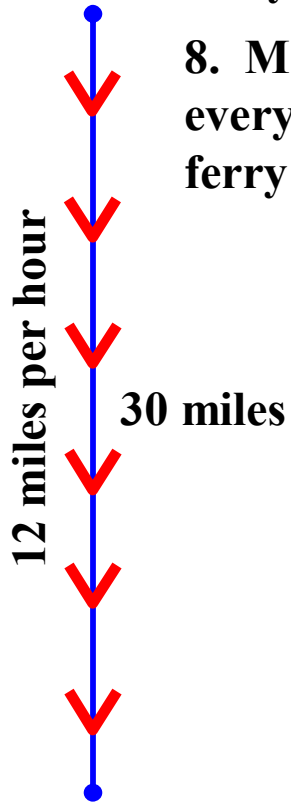
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$$0 \leq t$$

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay



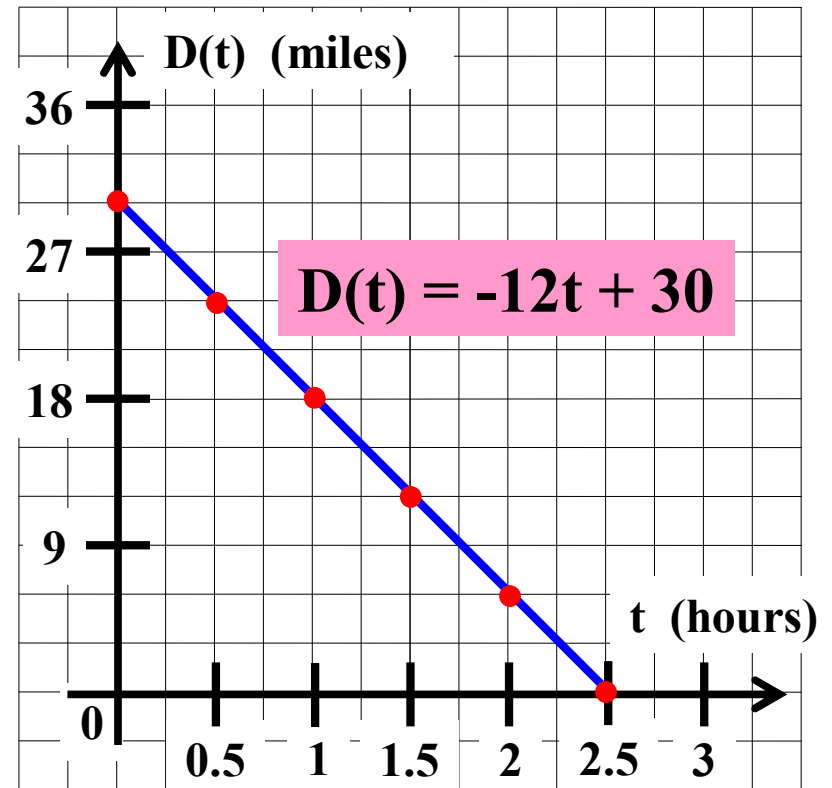
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0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

Bird Island



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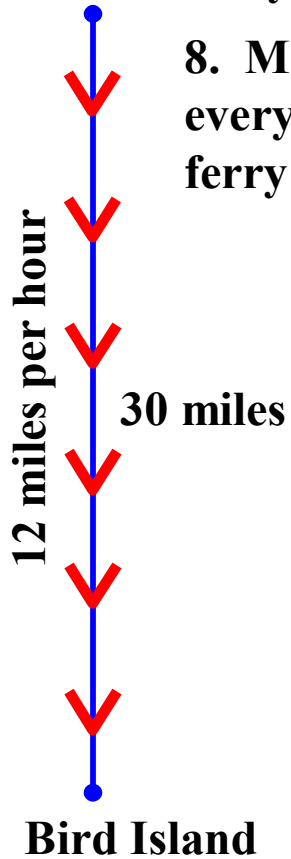
11. Write an inequality to describe the domain of function D .

$$0 \leq t \leq 2.5$$

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay

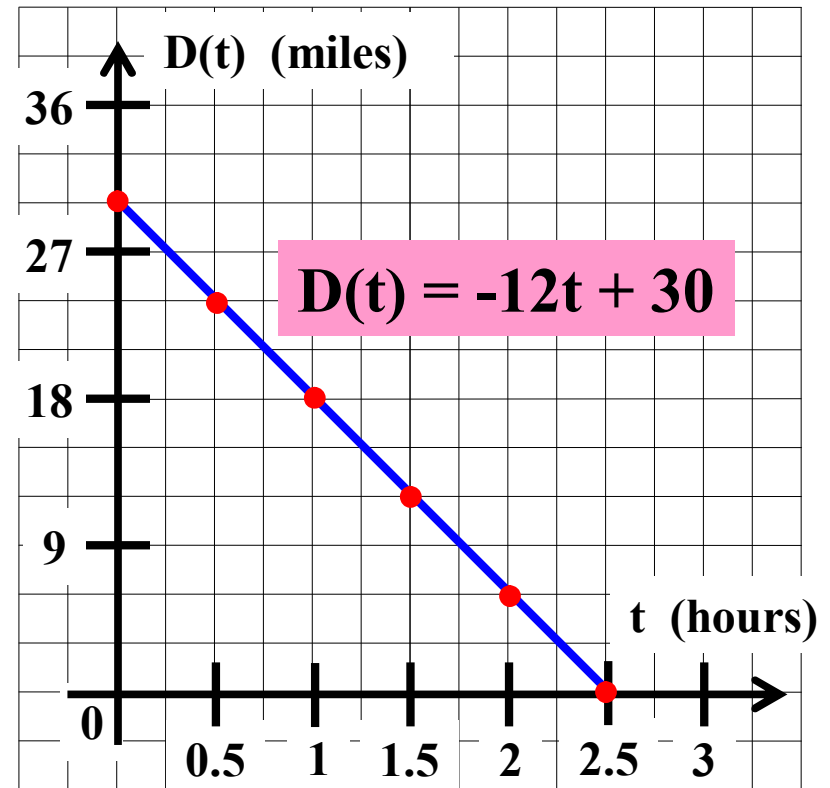


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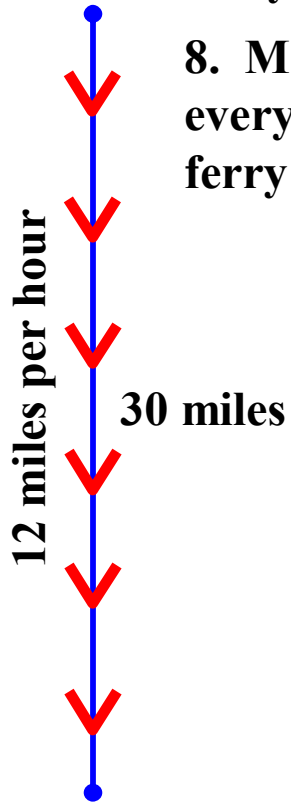
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Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay

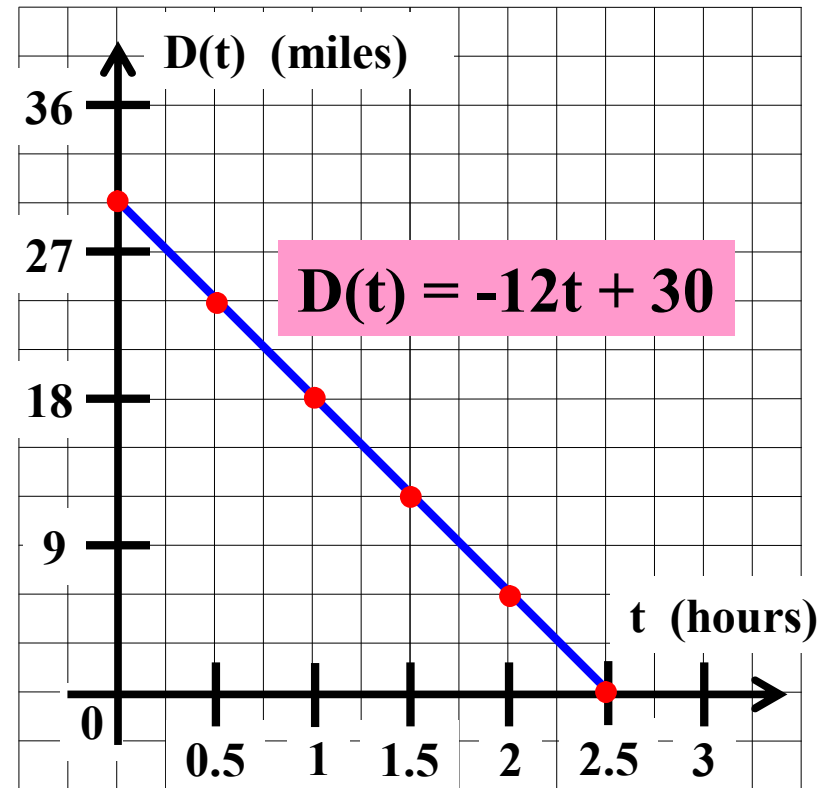


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t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain
 $0 \leq t \leq 2.5$

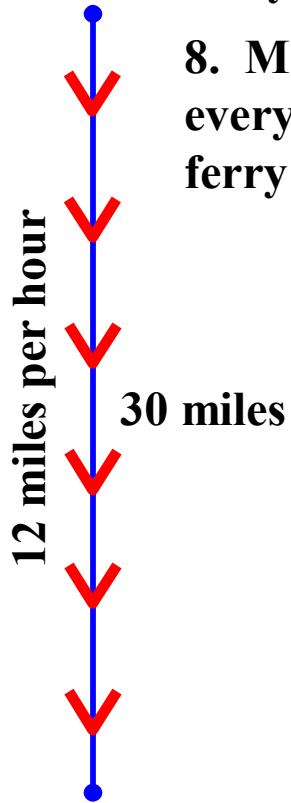
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Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay



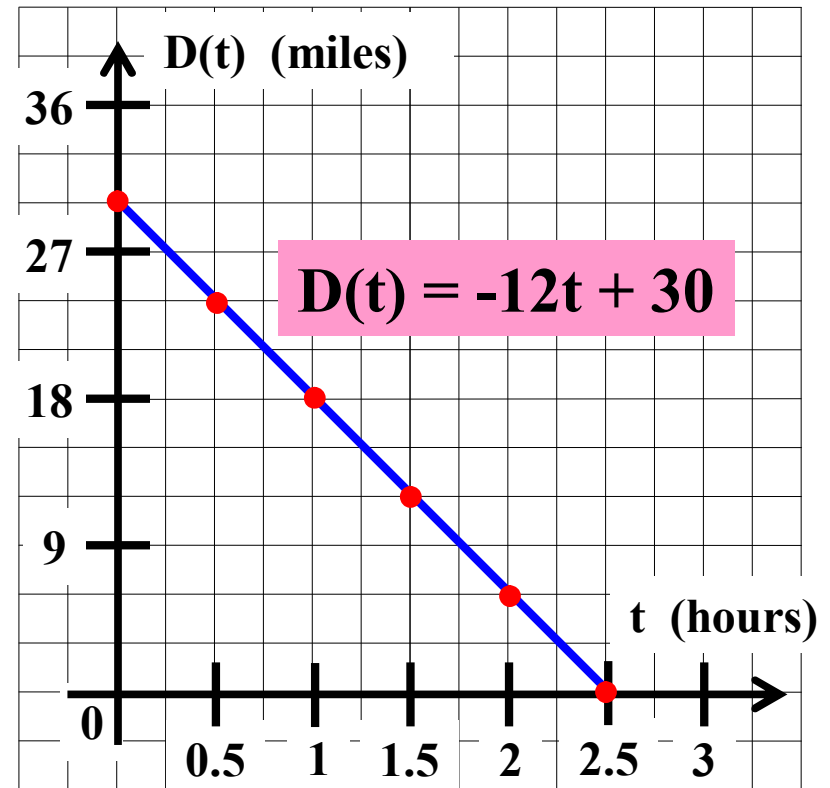
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1.5	12
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2.5	0

domain
 $0 \leq t \leq 2.5$

Bird Island

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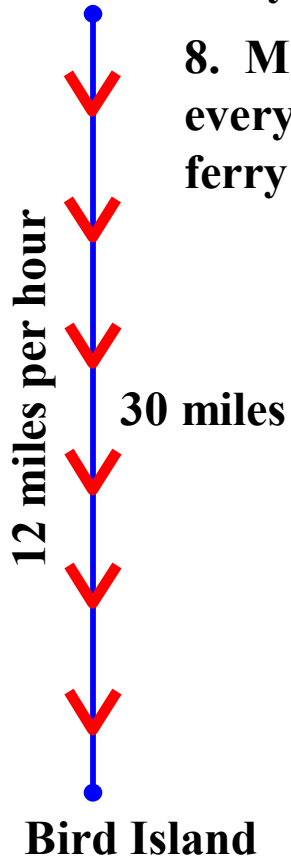


12. Write an inequality to describe the range of function D .

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay

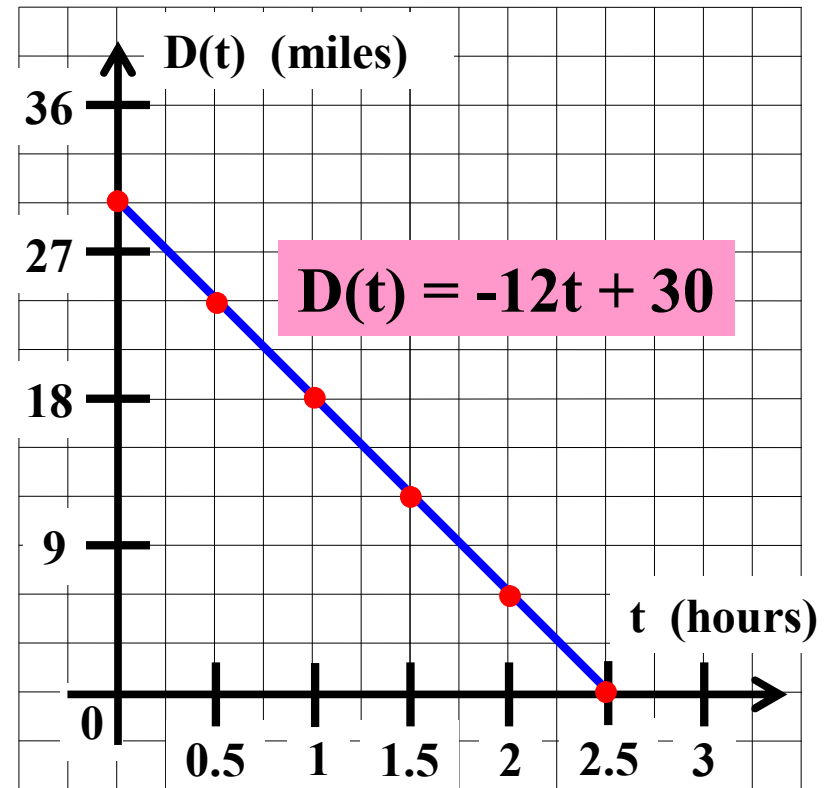


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domain
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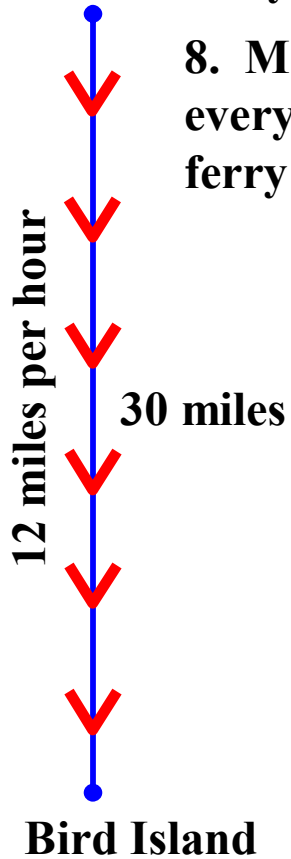


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Blue Fin Bay



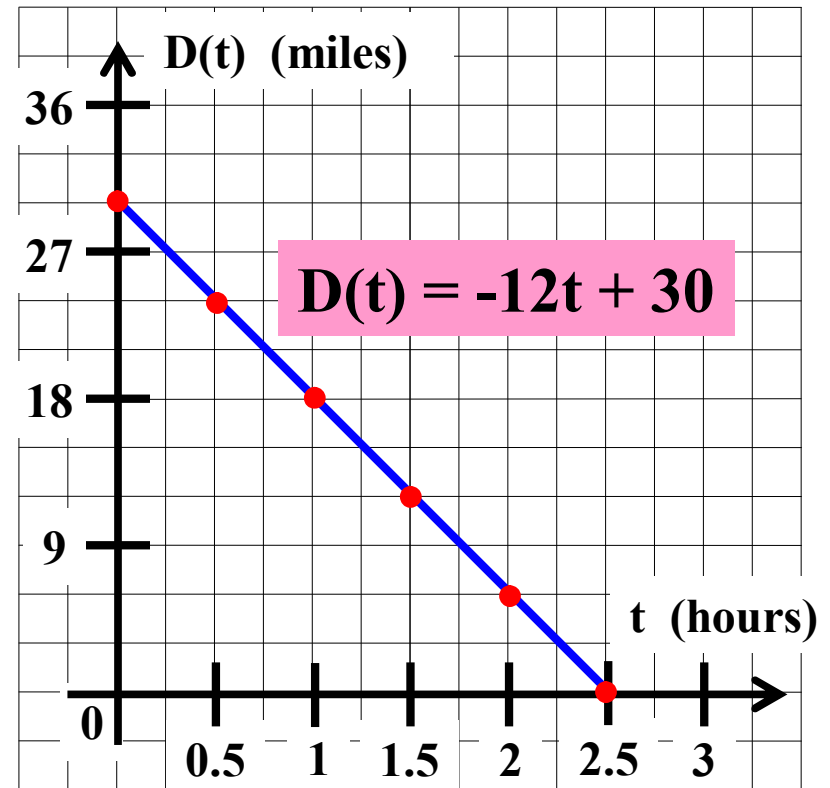
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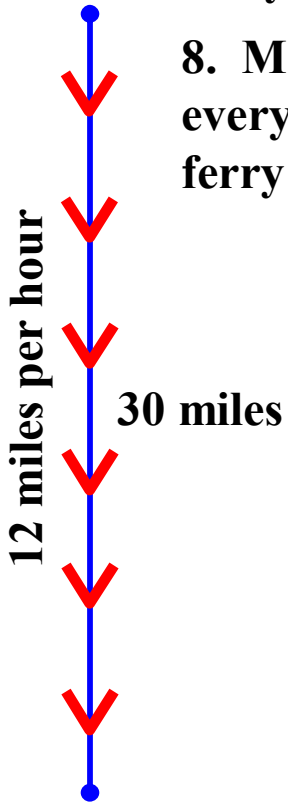
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Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay

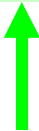


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0.5	24
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1.5	12
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2.5	0

domain
 $0 \leq t \leq 2.5$

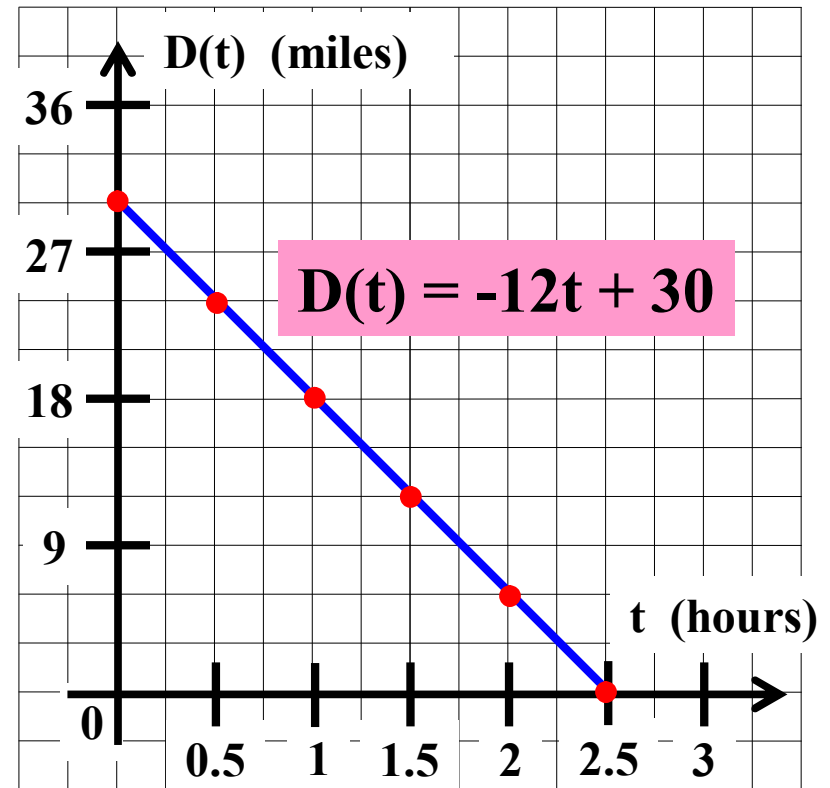
Bird Island



12. Write an inequality to describe the range of function D .

$0 \leq$

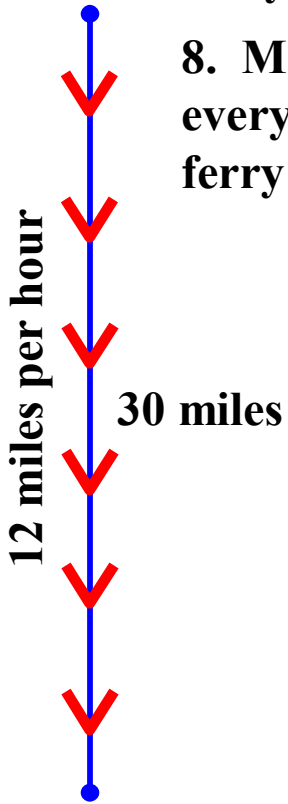
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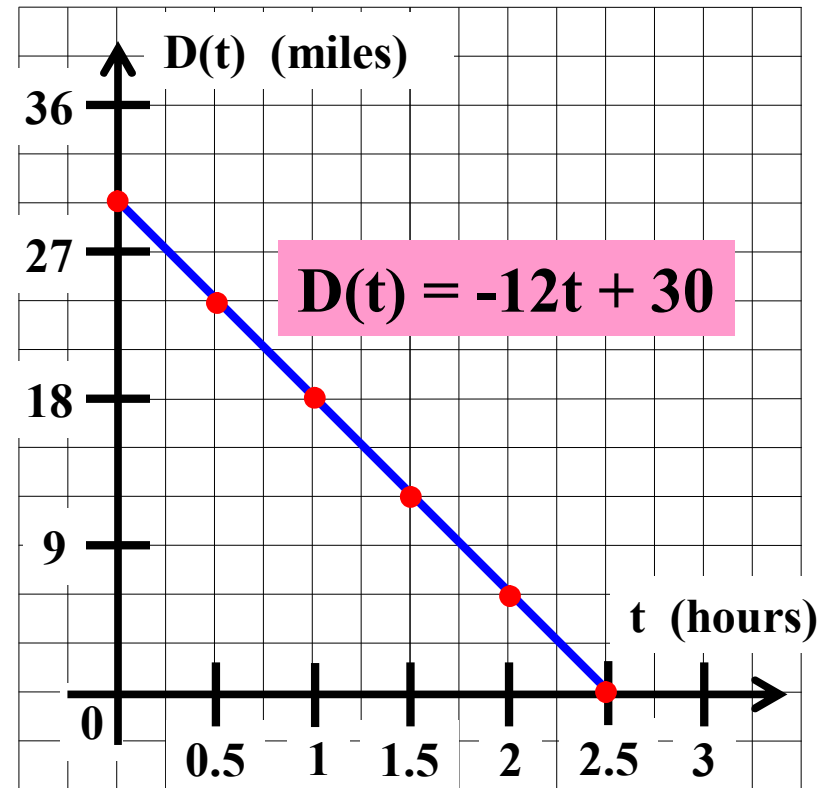


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2.5	0

domain
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9. Graph function D .



Bird Island

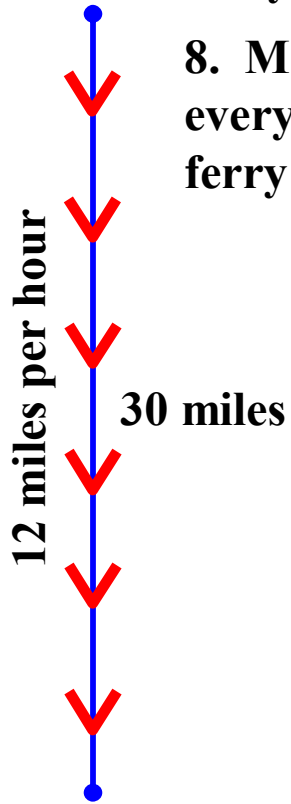
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$0 \leq D(t)$

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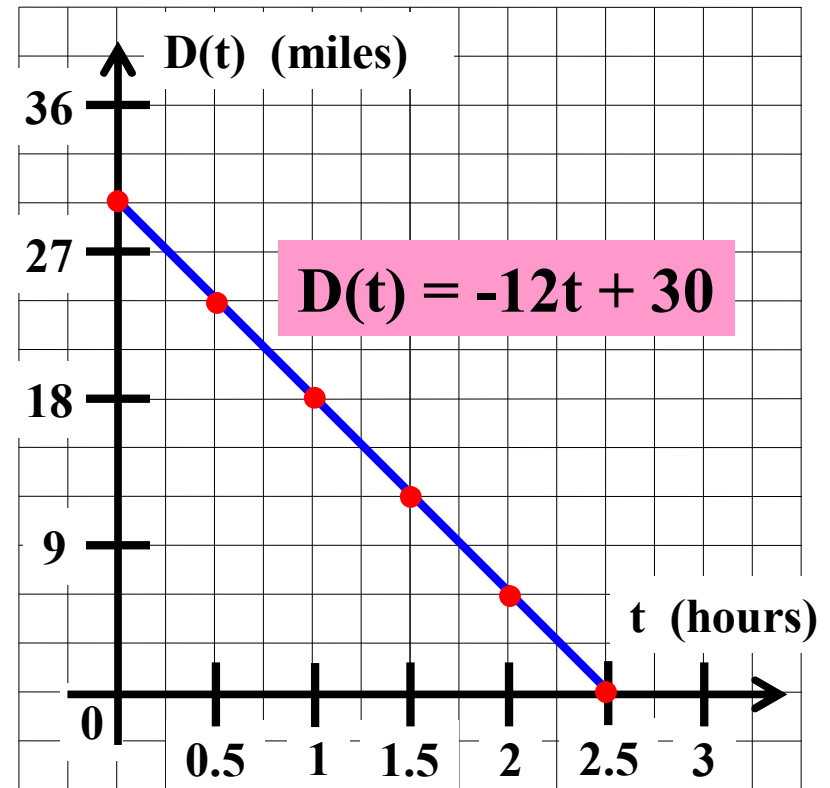


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0.5	24
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1.5	12
2	6
2.5	0

domain
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9. Graph function D .



Bird Island

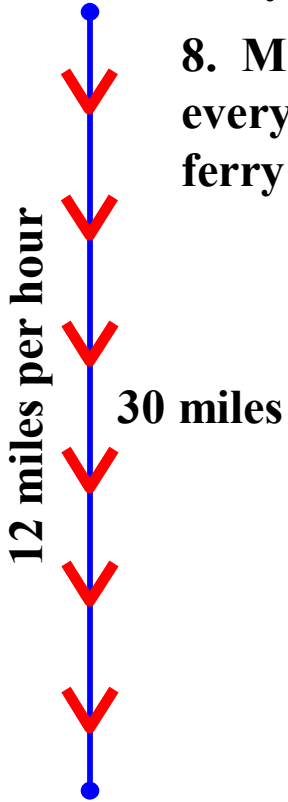
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$$0 \leq D(t) \leq$$

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay



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2.5	0

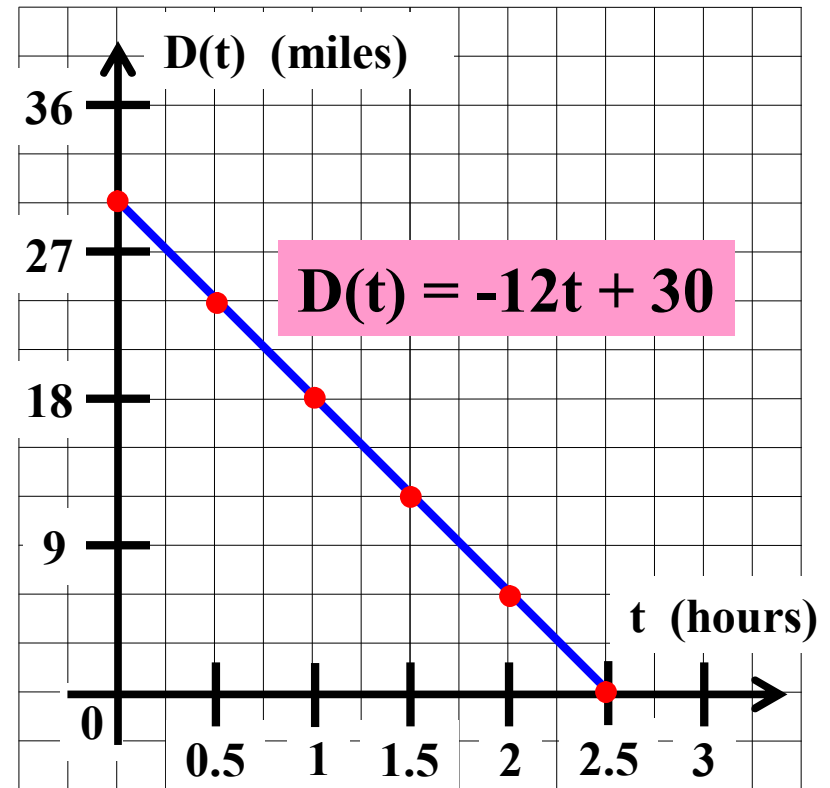
domain
 $0 \leq t \leq 2.5$

Bird Island

12. Write an inequality to describe the range of function D .

$$0 \leq D(t) \leq 30$$

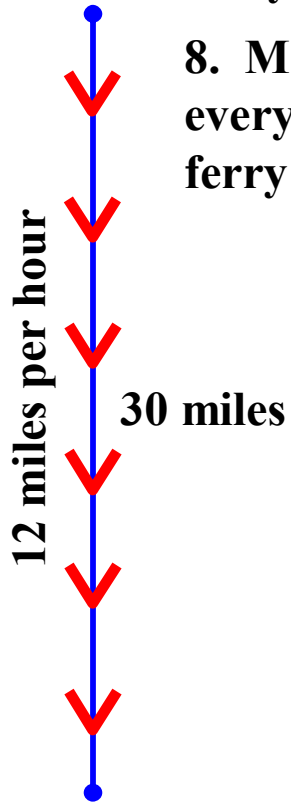
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Blue Fin Bay



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0.5	24
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2.5	0

domain

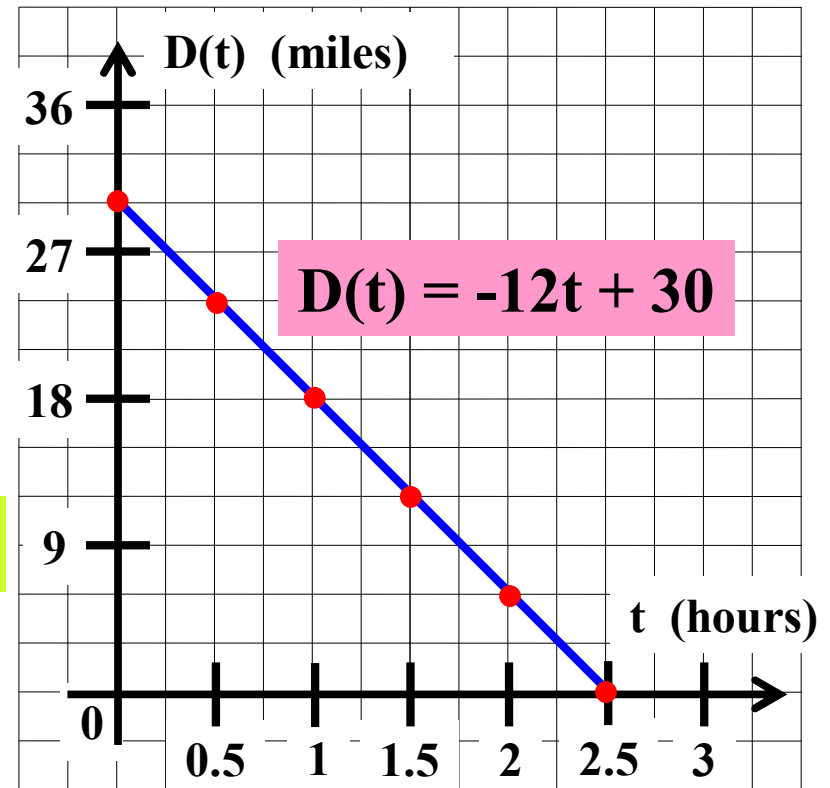
$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

Bird Island

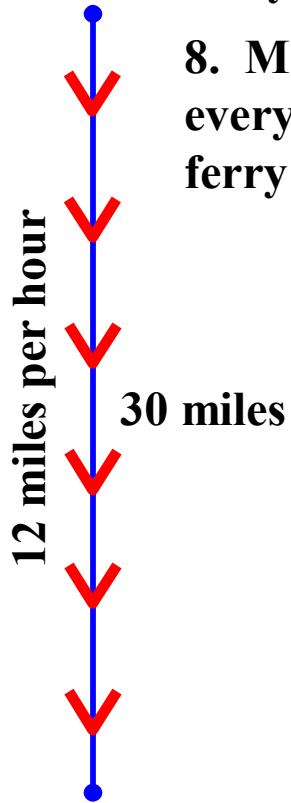
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

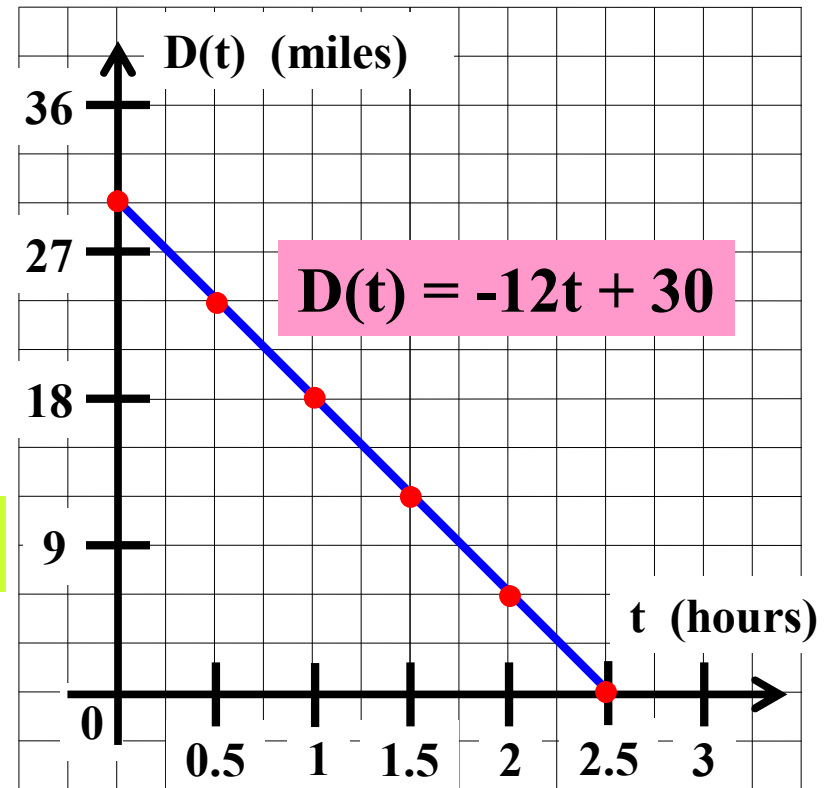
range

$$0 \leq D(t) \leq 30$$

Bird Island

13. Evaluate $D(1)$.

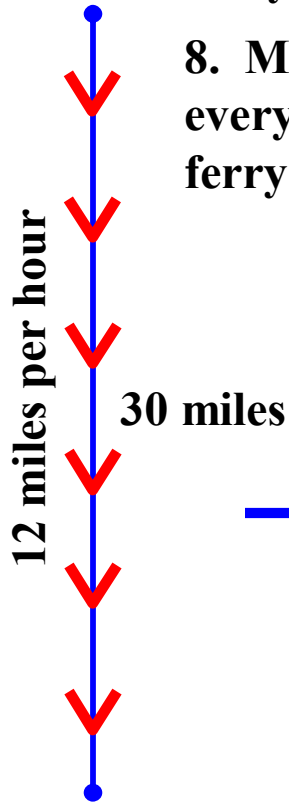
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

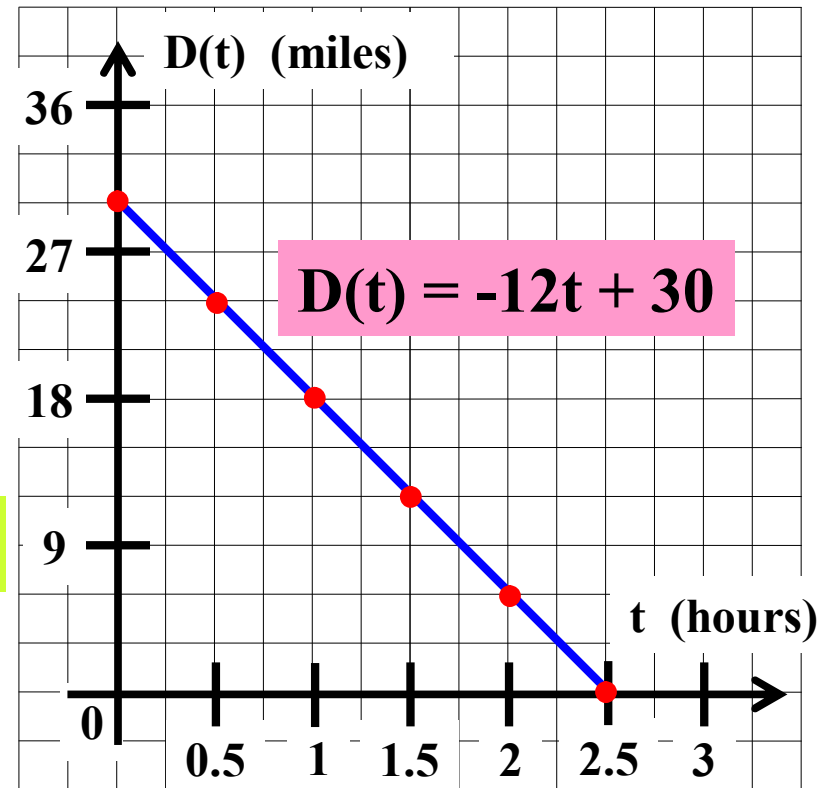
range

$$0 \leq D(t) \leq 30$$

Bird Island

13. Evaluate $D(1)$.

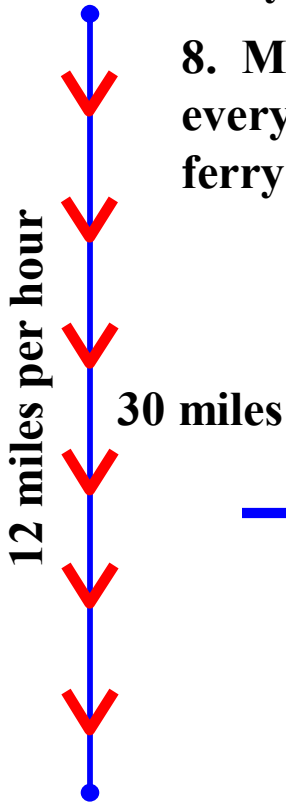
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

range

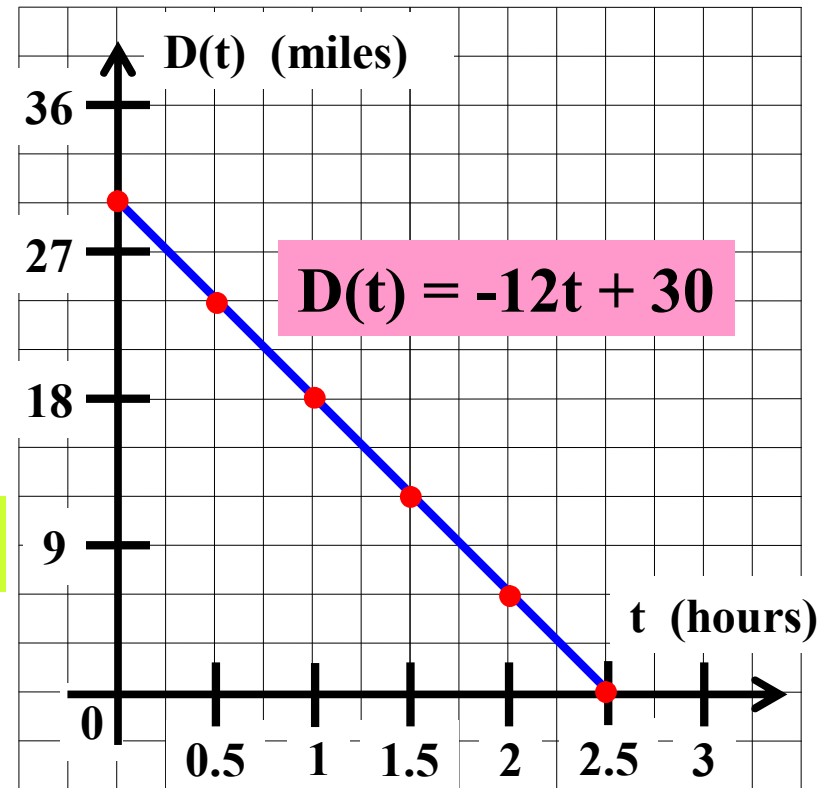
$$0 \leq D(t) \leq 30$$

Bird Island

13. Evaluate $D(1)$.

$D(1) =$

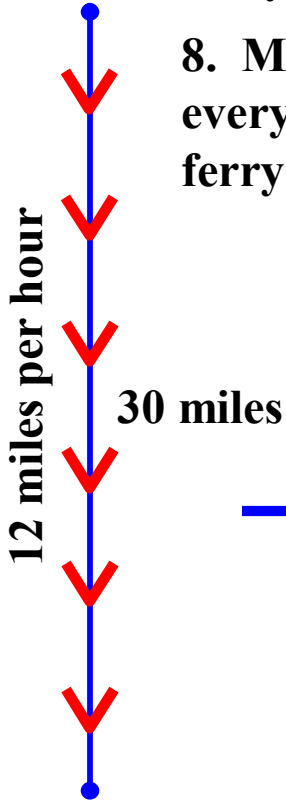
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

range

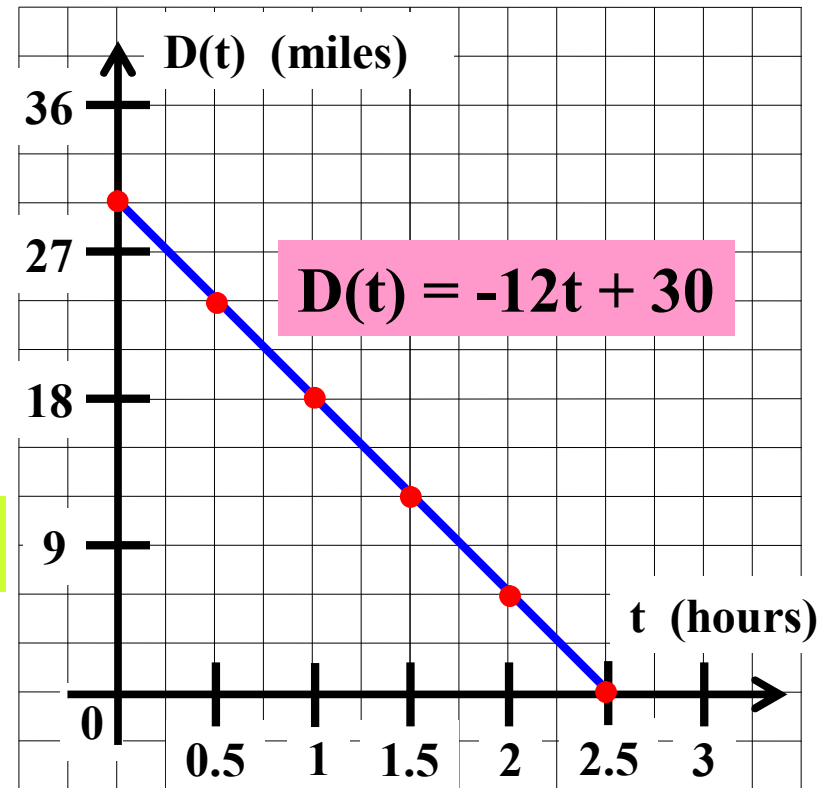
$$0 \leq D(t) \leq 30$$

Bird Island

13. Evaluate $D(1)$.

$$D(1) = 18$$

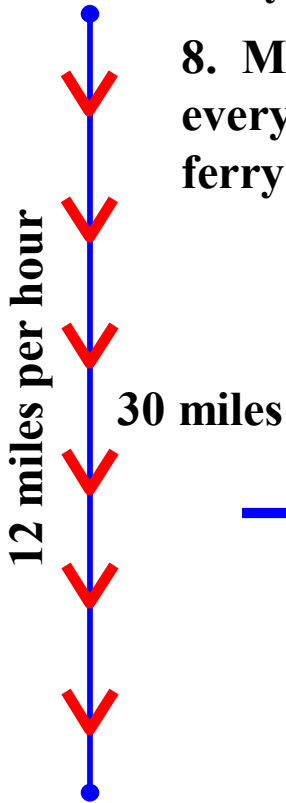
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

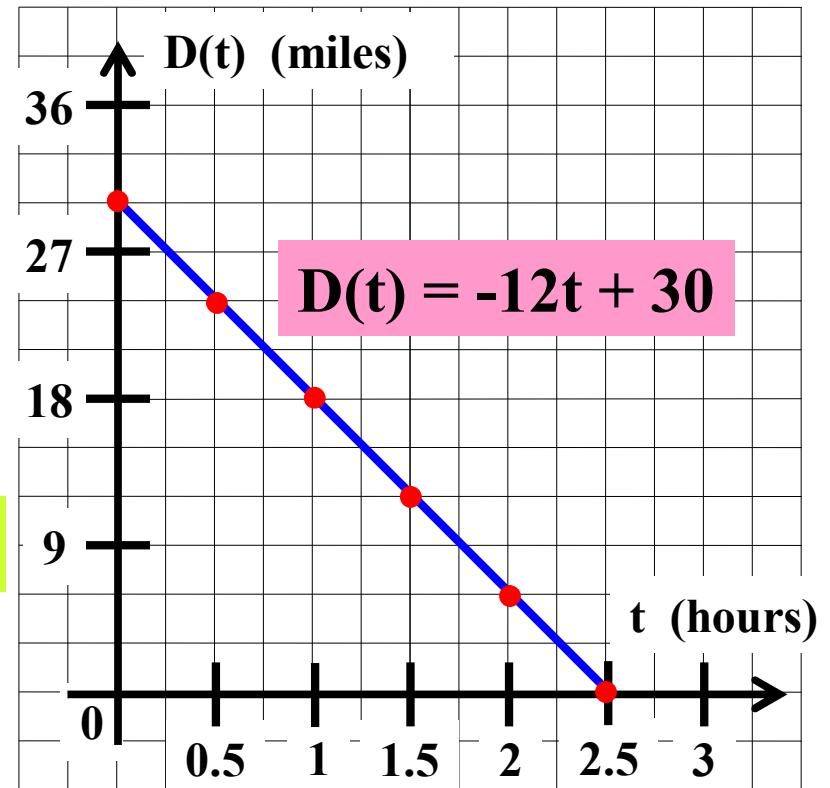
domain

$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

9. Graph function D .



Bird Island

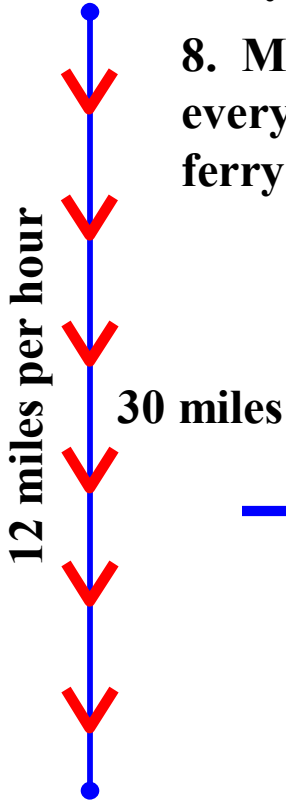
13. Evaluate $D(1)$. What does $D(1)$ represent in terms of the problem?

$$D(1) = 18$$

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

range

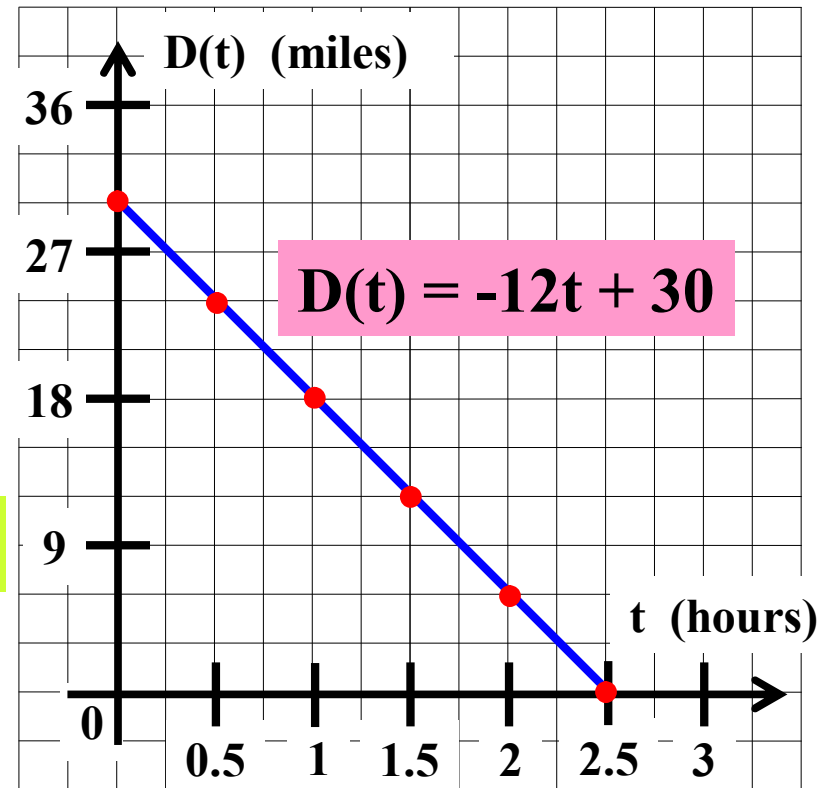
$$0 \leq D(t) \leq 30$$

Bird Island

13. Evaluate $D(1)$. What does $D(1)$ represent in terms of the problem?

$$D(1) = 18$$

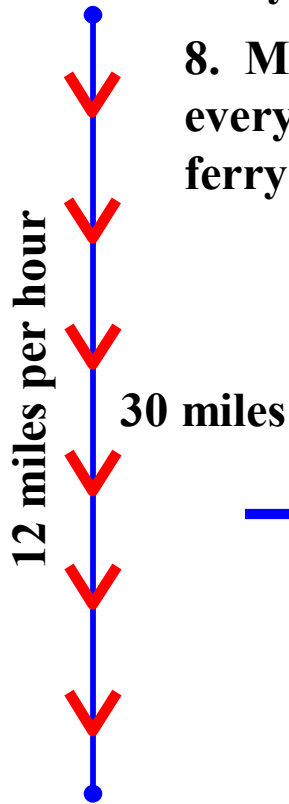
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

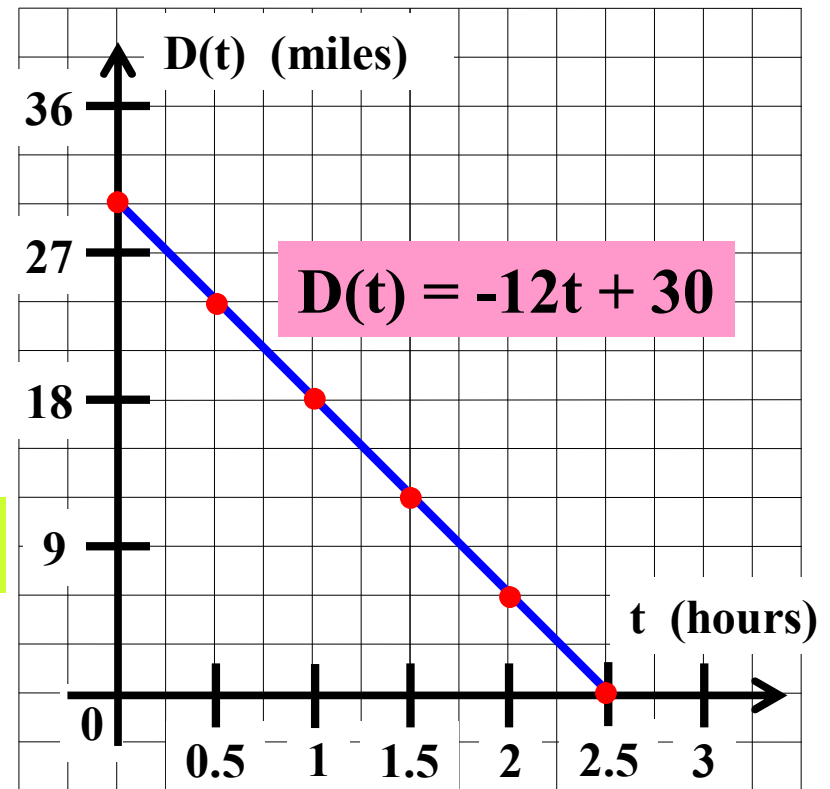
Bird Island

13. Evaluate $D(1)$. What does $D(1)$ represent in terms of the problem?

$$D(1) = 18$$

$D(1)$ represents the distance the ferry is from Bird Island

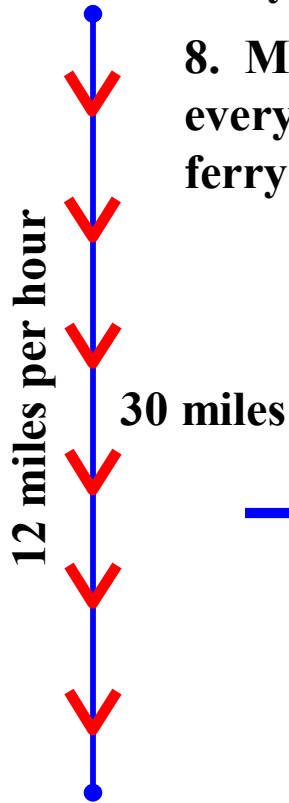
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

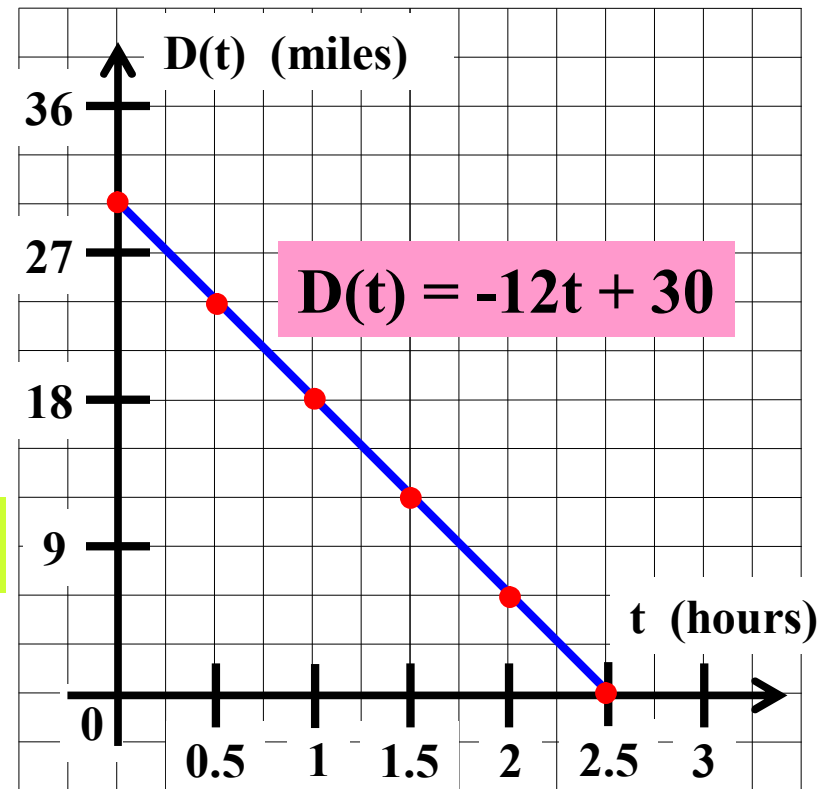
Bird Island

13. Evaluate $D(1)$. What does $D(1)$ represent in terms of the problem?

$$D(1) = 18$$

$D(1)$ represents the distance the ferry is from Bird Island after 1 hour.

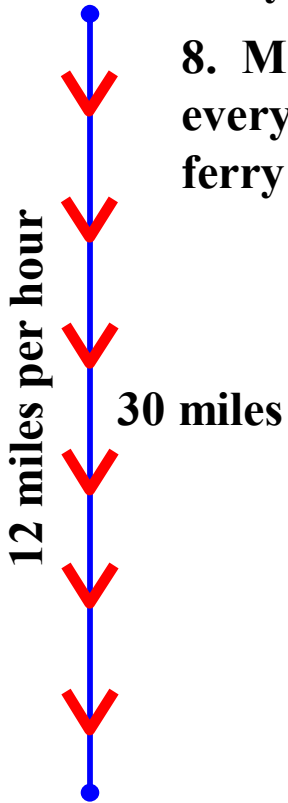
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

range

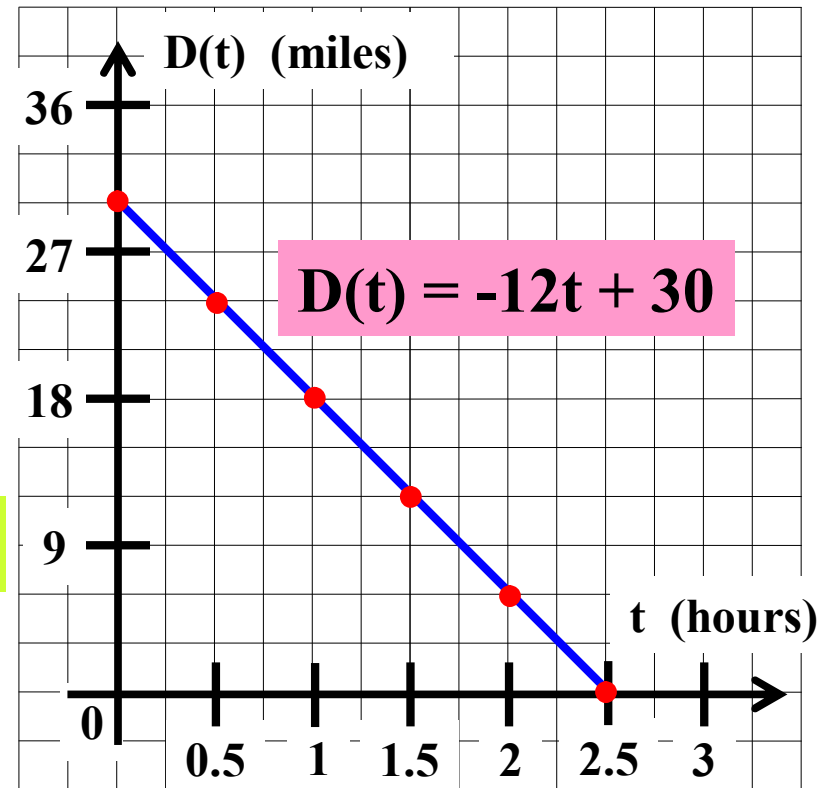
$$0 \leq D(t) \leq 30$$

Bird Island

13. Evaluate $D(1)$. What does $D(1)$ represent in terms of the problem?

$D(1) = 18$ miles $D(1)$ represents the distance the ferry is from Bird Island after 1 hour.

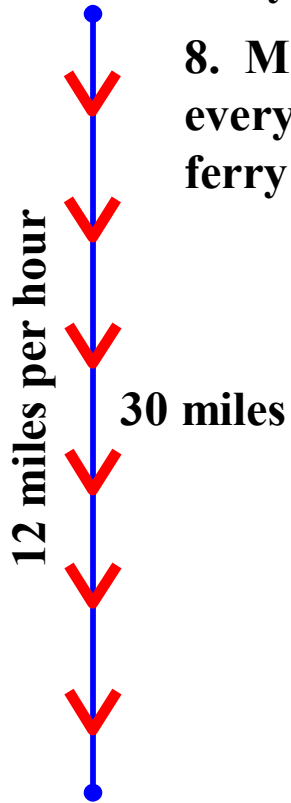
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

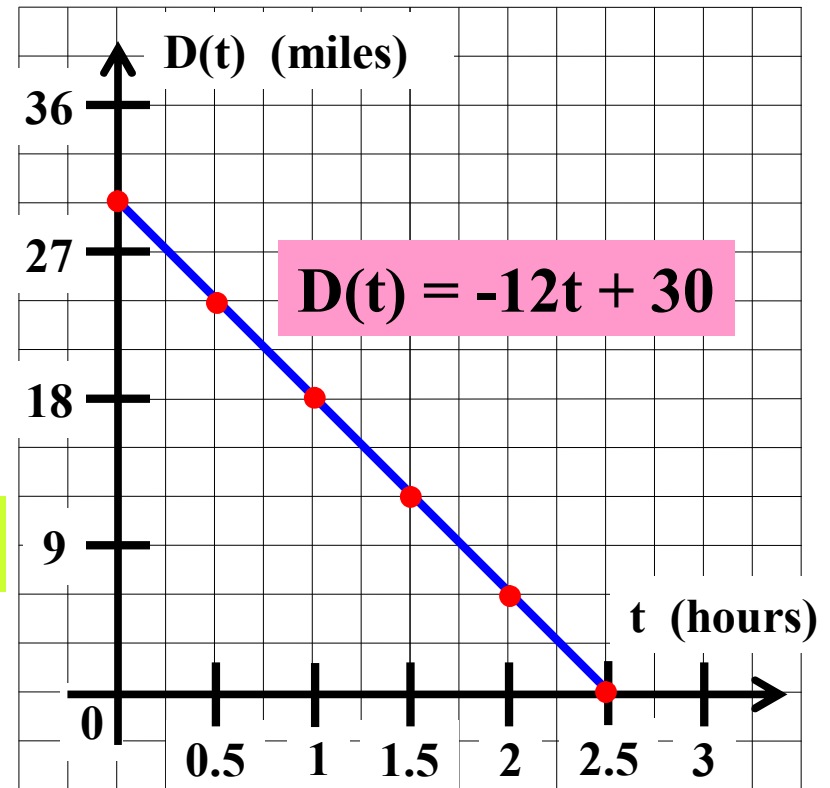
$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

Bird Island

9. Graph function D .

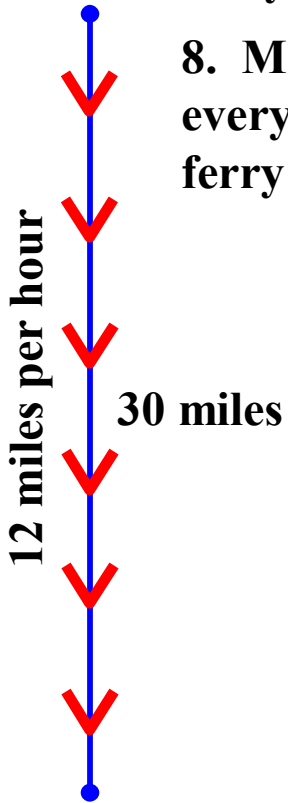


14. If $D(t) = 15$, then find the value of t .

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



Bird Island

8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

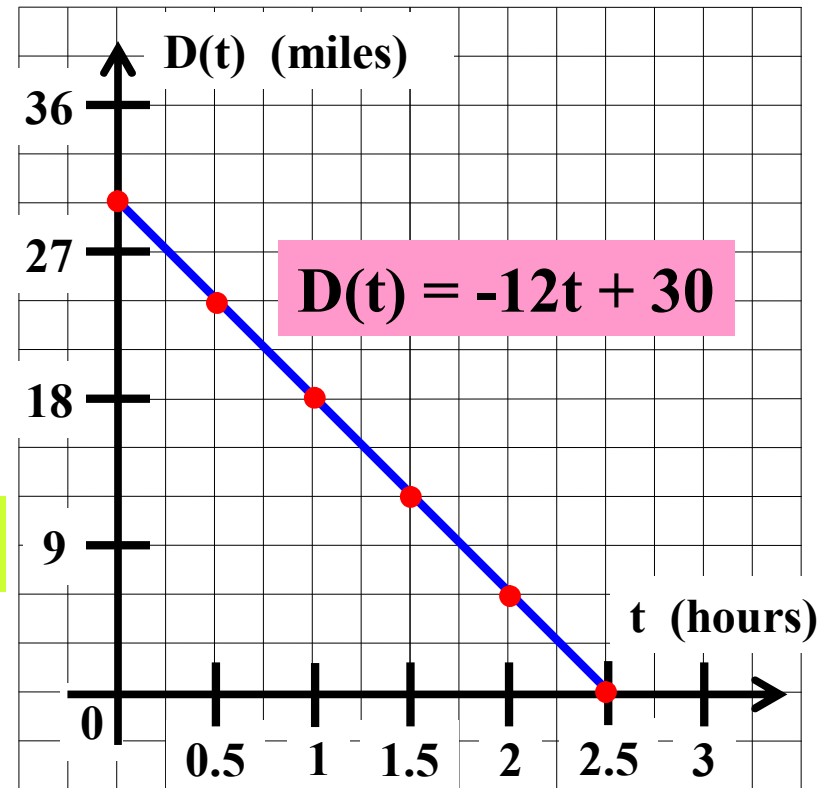
range

$$0 \leq D(t) \leq 30$$

14. If $D(t) = 15$, then find the value of t .

$$-12t + 30$$

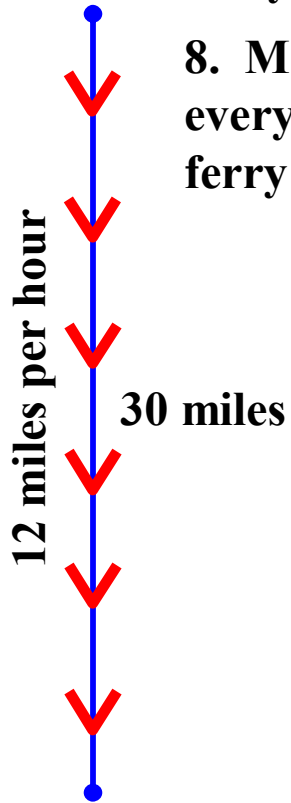
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

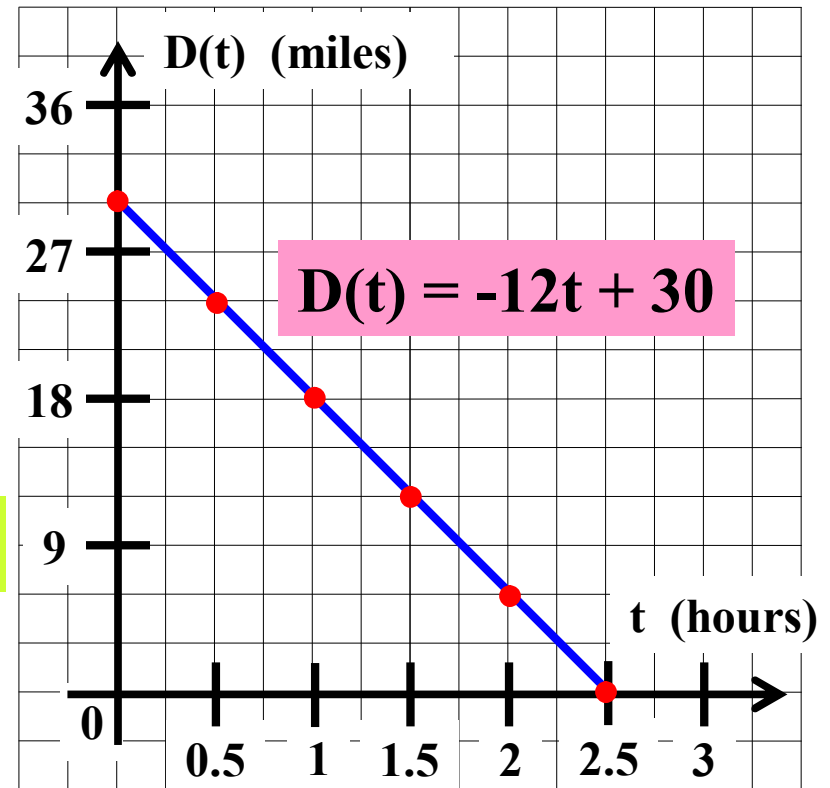
$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

Bird Island

9. Graph function D .



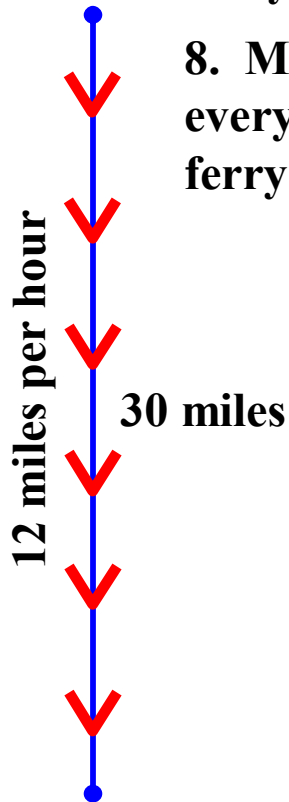
14. If $D(t) = 15$, then find the value of t .

$$-12t + 30 = 15$$

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

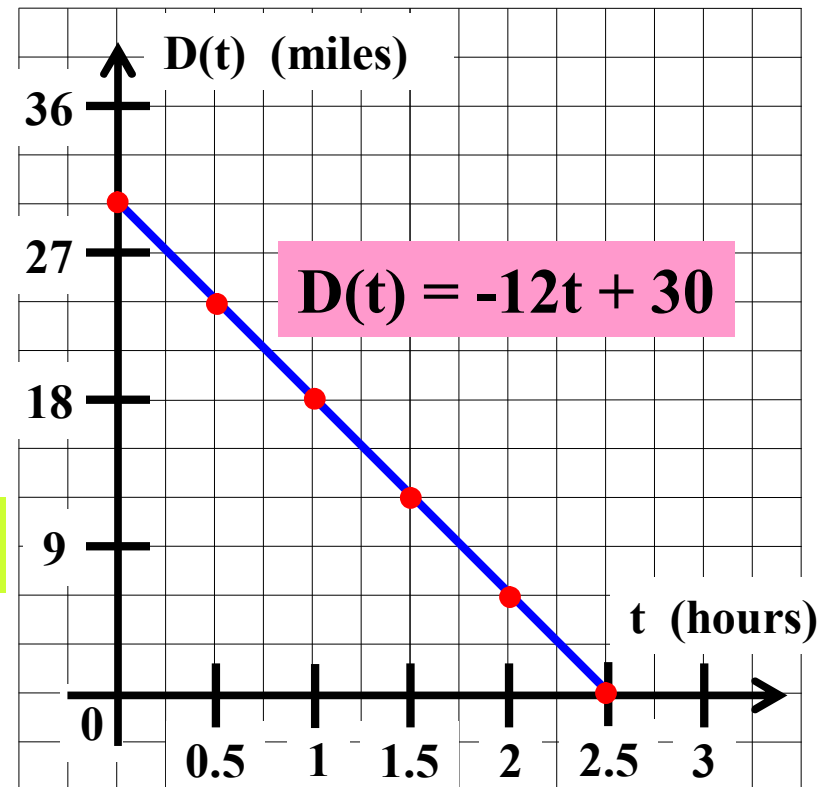
domain

$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

9. Graph function D .



Bird Island

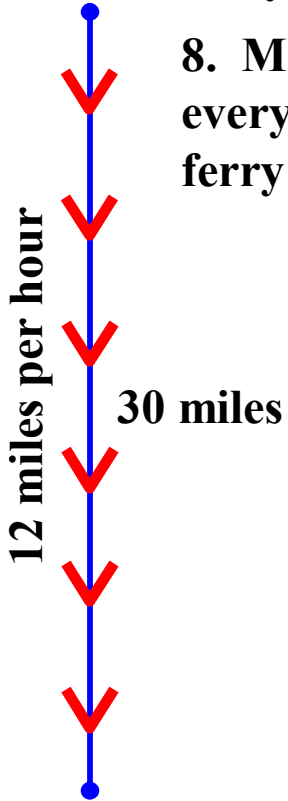
14. If $D(t) = 15$, then find the value of t .

$$-12t + 30 = 15 \rightarrow -12t =$$

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

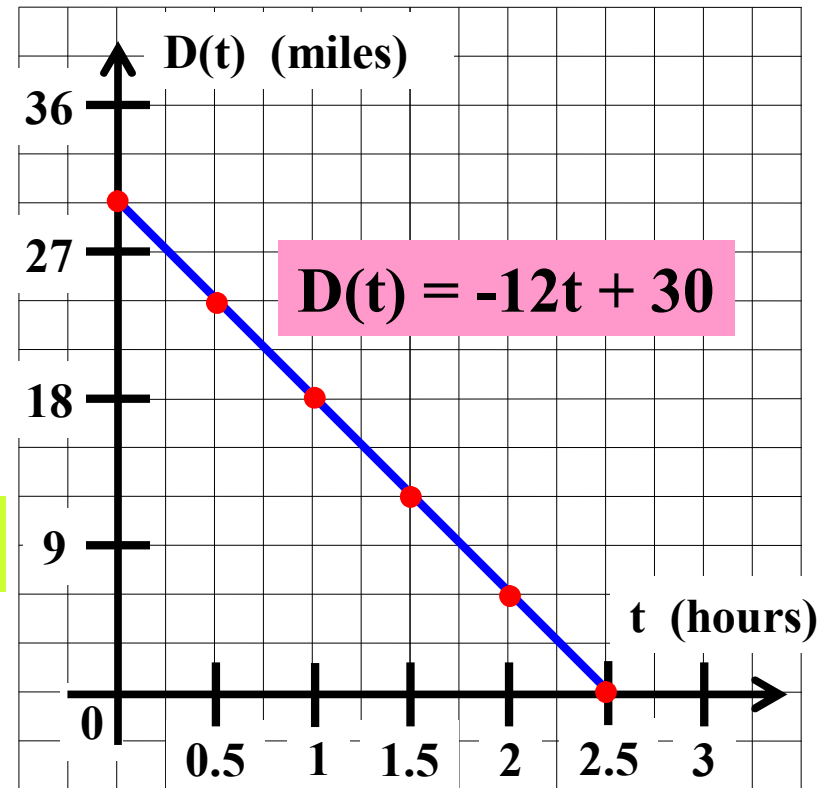
$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

Bird Island

9. Graph function D .



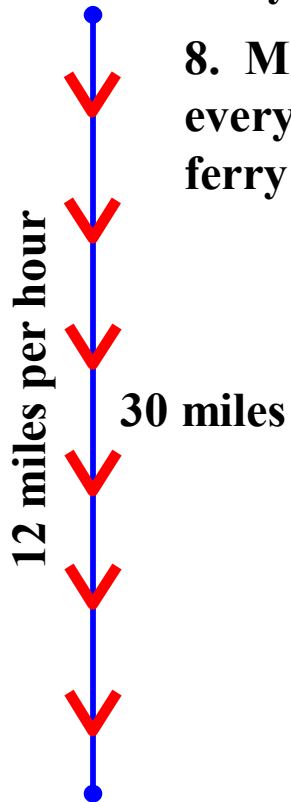
14. If $D(t) = 15$, then find the value of t .

$$-12t + 30 = 15 \rightarrow -12t = -15$$

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



Bird Island

8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

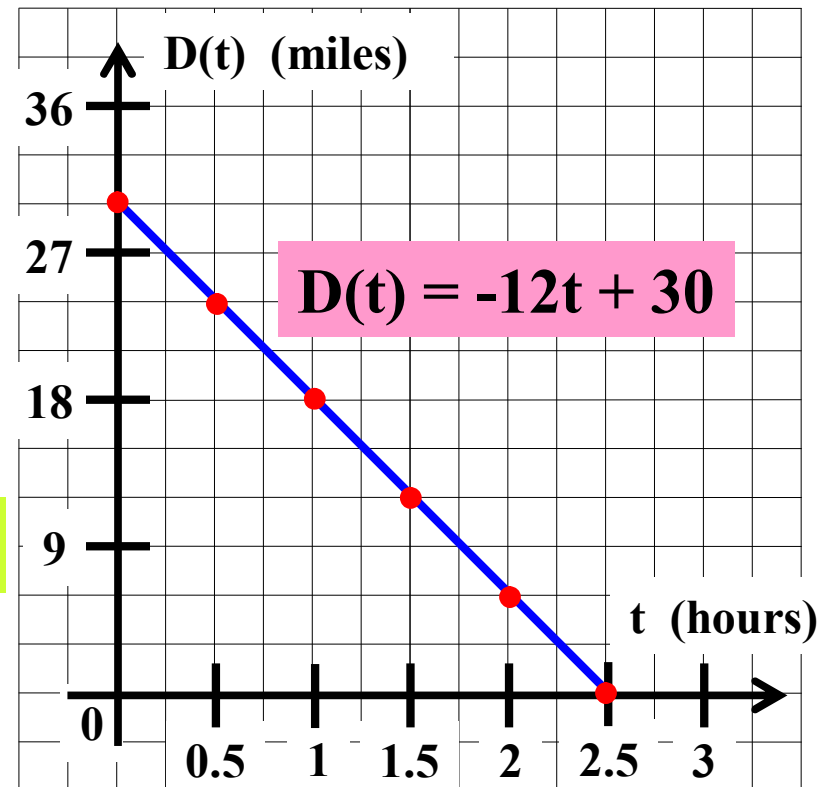
domain

$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

9. Graph function D .



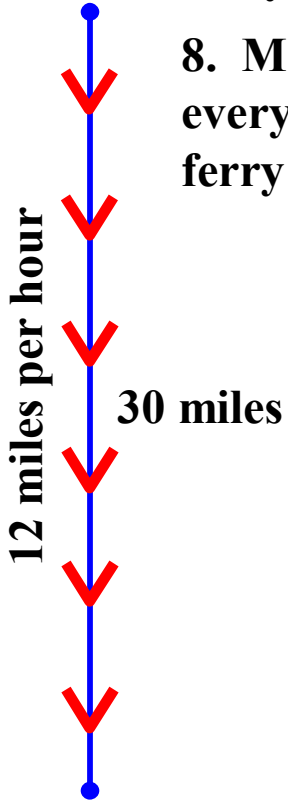
14. If $D(t) = 15$, then find the value of t .

$$-12t + 30 = 15 \rightarrow -12t = -15 \rightarrow$$

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



Bird Island

8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

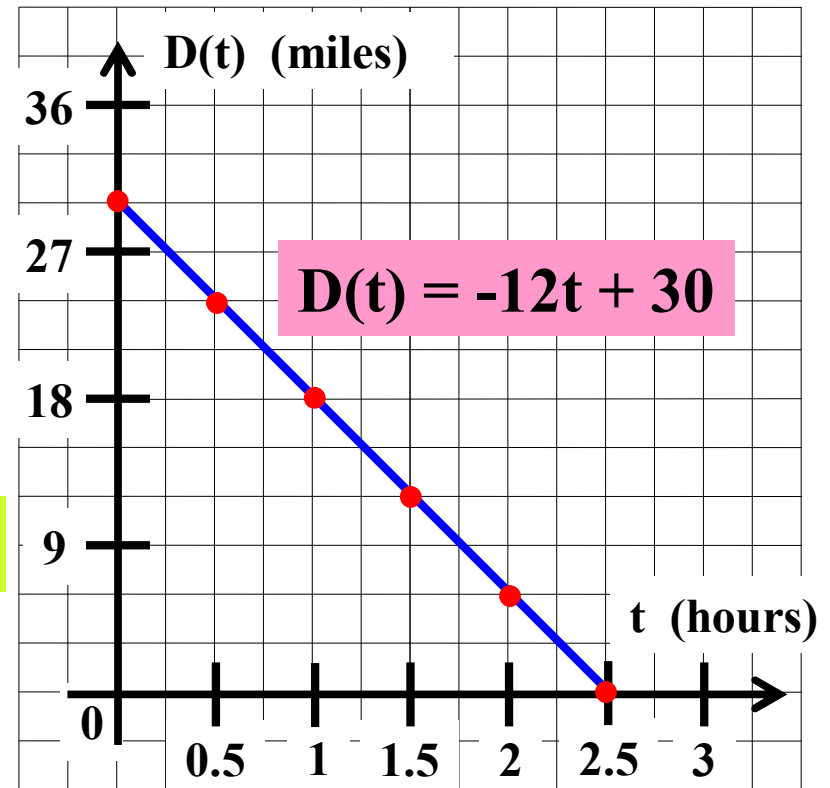
domain

$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

9. Graph function D .



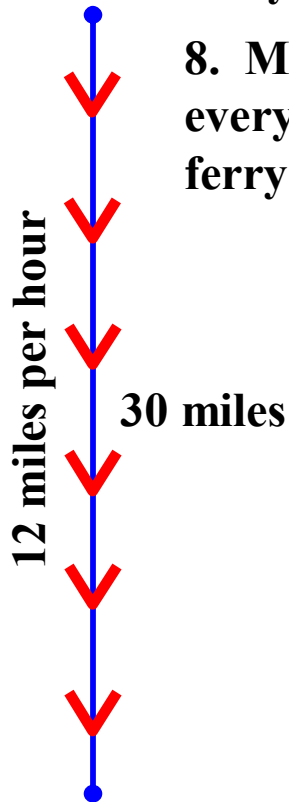
14. If $D(t) = 15$, then find the value of t .

$$-12t + 30 = 15 \rightarrow -12t = -15 \rightarrow t =$$

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

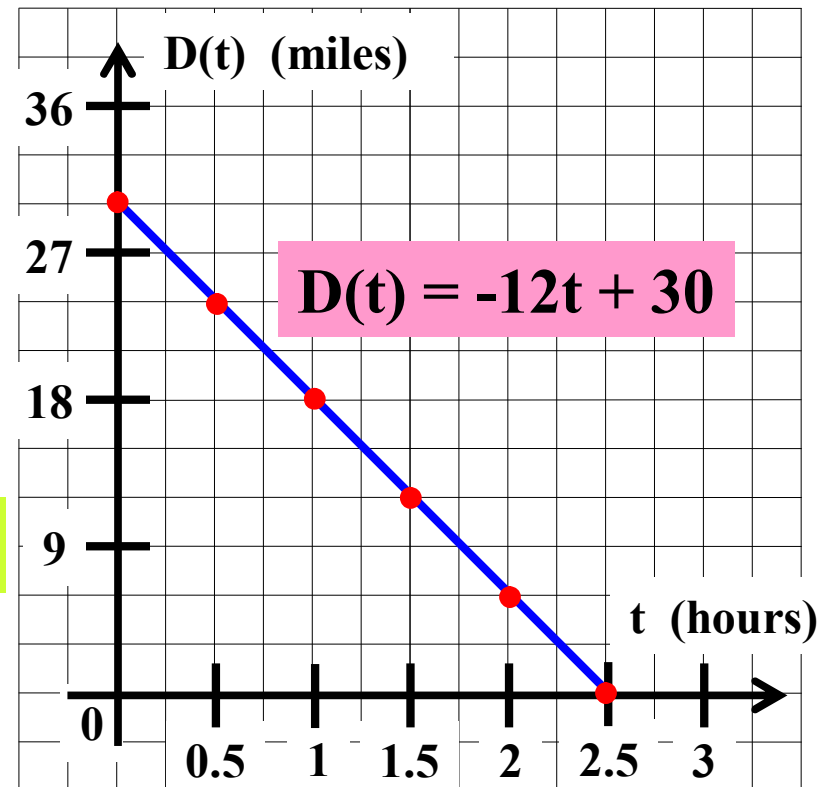
$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

Bird Island

9. Graph function D .



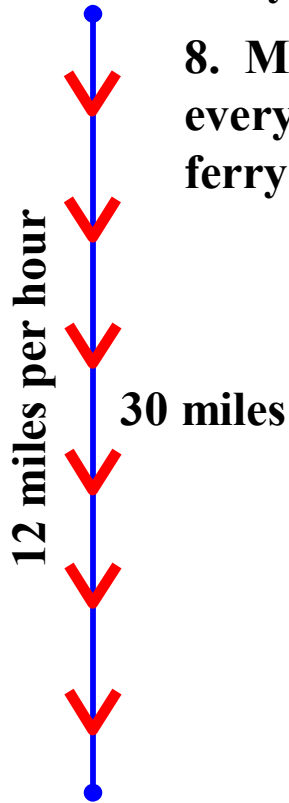
14. If $D(t) = 15$, then find the value of t .

$$-12t + 30 = 15 \rightarrow -12t = -15 \rightarrow t = 1.25$$

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

range

$$0 \leq D(t) \leq 30$$

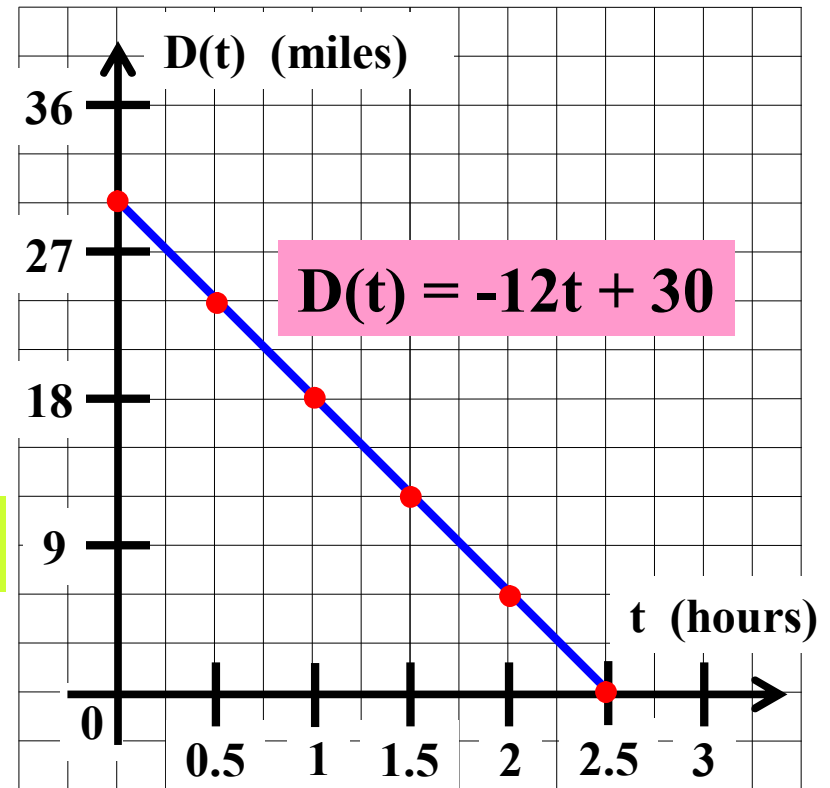
Bird Island

14. If $D(t) = 15$, then find the value of t .

$$t = 1.25$$

$$-12t + 30 = 15 \rightarrow -12t = -15 \rightarrow t = 1.25$$

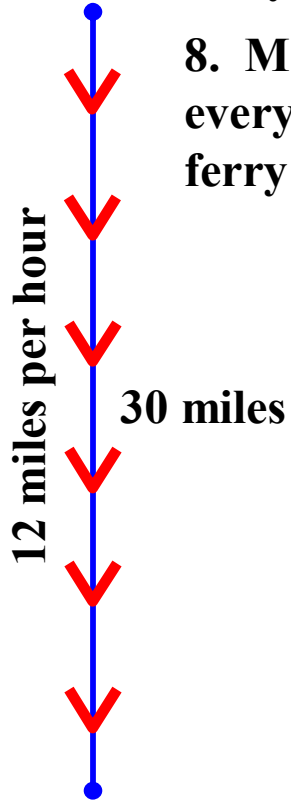
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

range

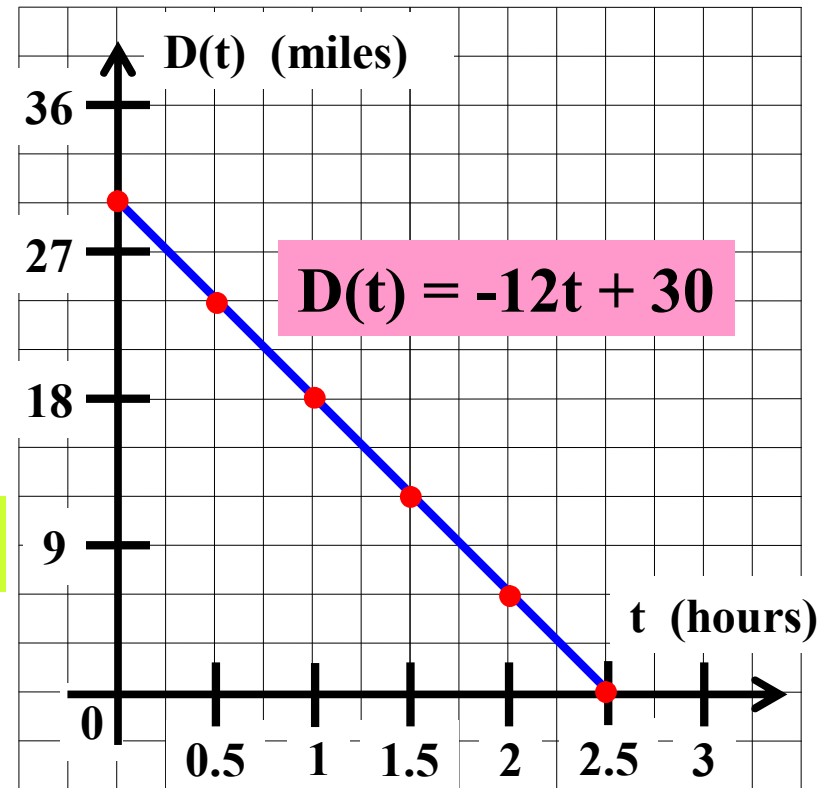
$$0 \leq D(t) \leq 30$$

Bird Island

14. If $D(t) = 15$, then find the value of t .

$$t = 1.25$$

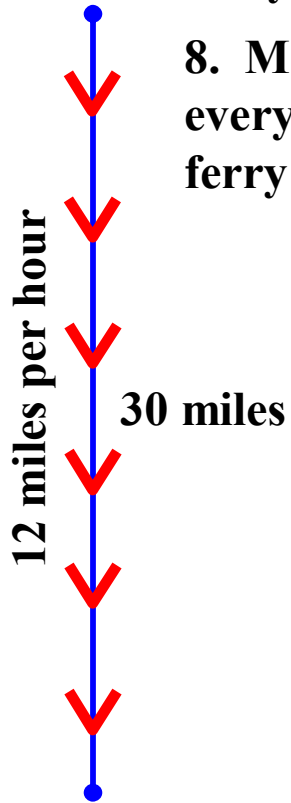
9. Graph function D .



Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

domain

$$0 \leq t \leq 2.5$$

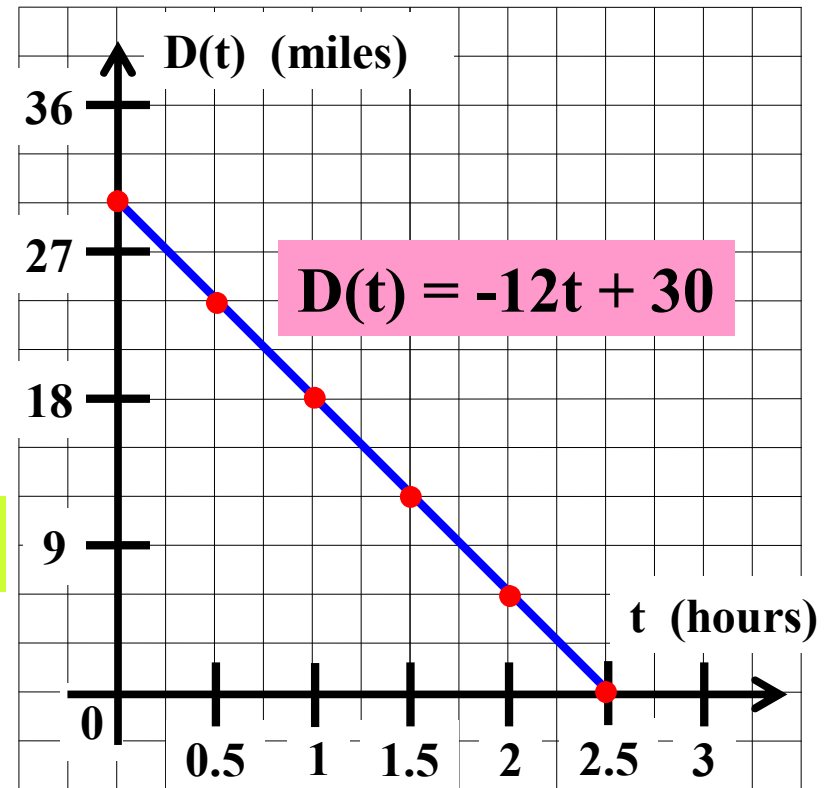
range

$$0 \leq D(t) \leq 30$$

Bird Island

$$t = 1.25$$

9. Graph function D .

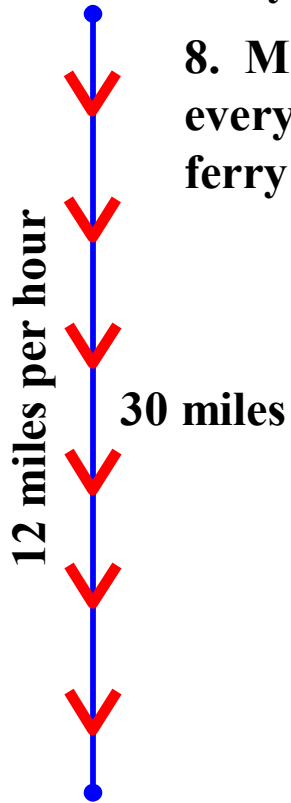


14. If $D(t) = 15$, then find the value of t . Describe what this value of t represents in terms of the problem.

Algebra I Class Worksheet #4 Unit 8

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Bird Island.

Blue Fin Bay



Bird Island

8. Make a table giving t and $D(t)$ every half-hour from $t = 0$ until the ferry reaches Bird Island.

t	$D(t)$
0	30
0.5	24
1	18
1.5	12
2	6
2.5	0

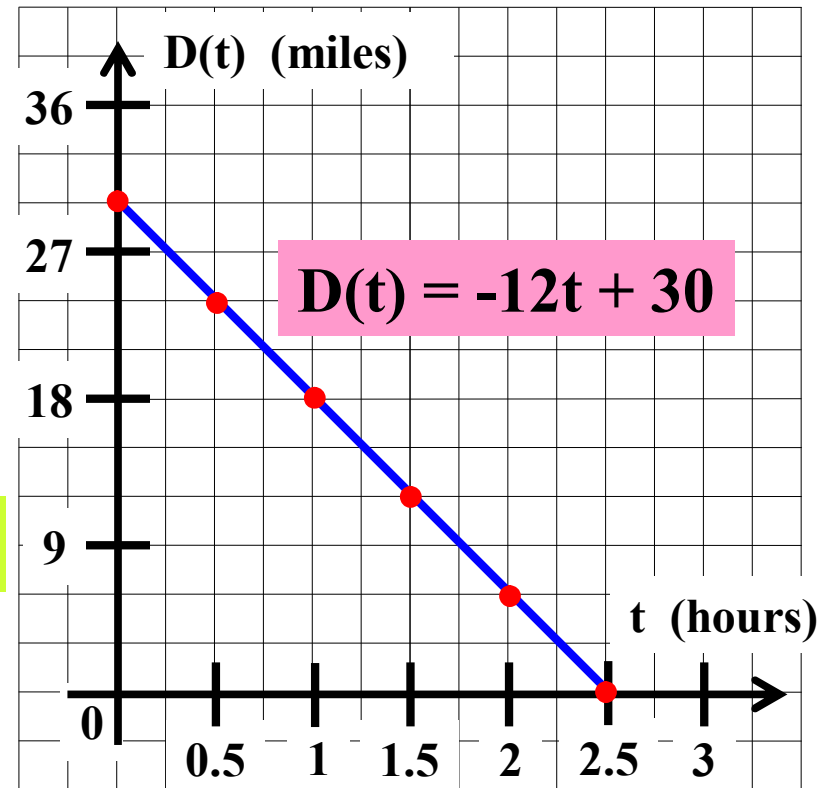
domain

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range

$$0 \leq D(t) \leq 30$$

9. Graph function D .



$$t = 1.25$$

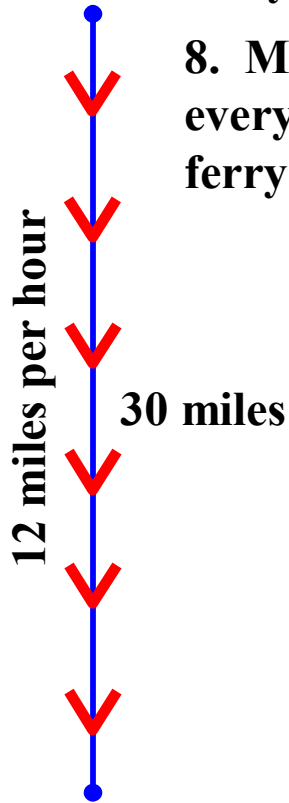
14. If $D(t) = 15$, then find the value of t . Describe what this value of t represents in terms of the problem.

This represents the time it takes the ferry

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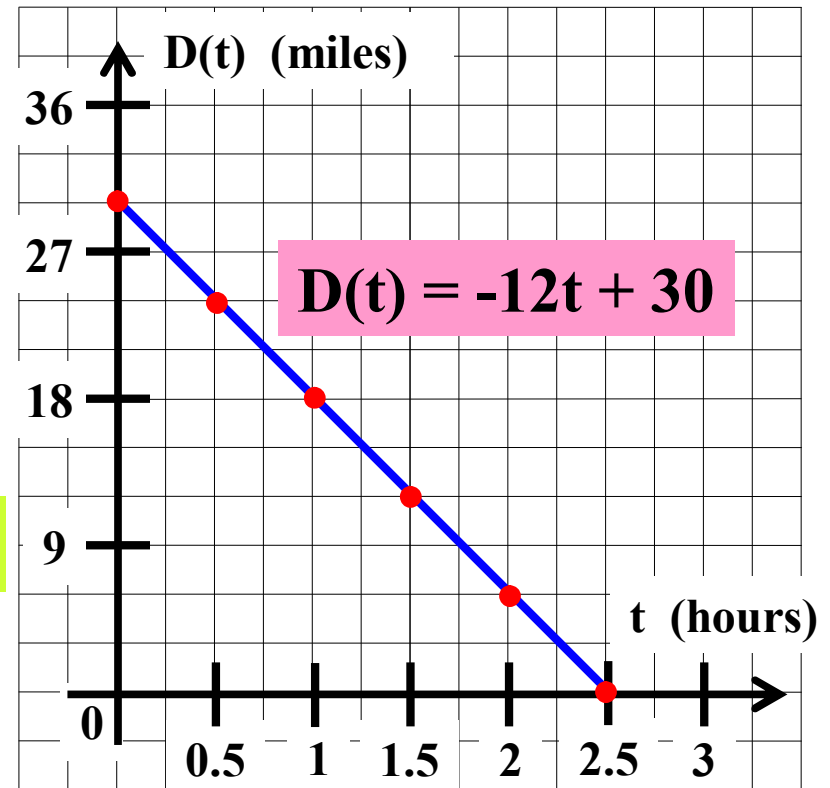
range

$$0 \leq D(t) \leq 30$$

Bird Island

$$t = 1.25$$

9. Graph function D .



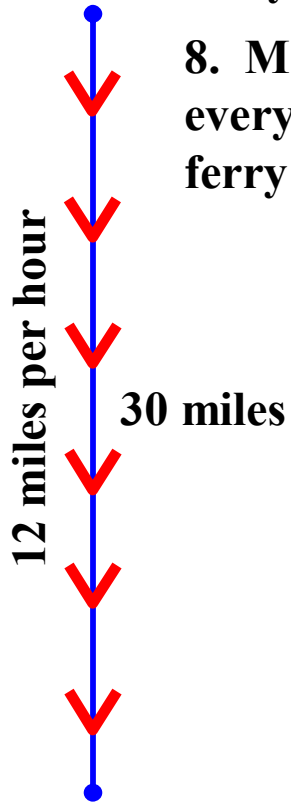
14. If $D(t) = 15$, then find the value of t . Describe what this value of t represents in terms of the problem.

This represents the time it takes the ferry to be 15 miles from Bird Island.

Algebra I Class Worksheet #4 Unit 8

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Blue Fin Bay



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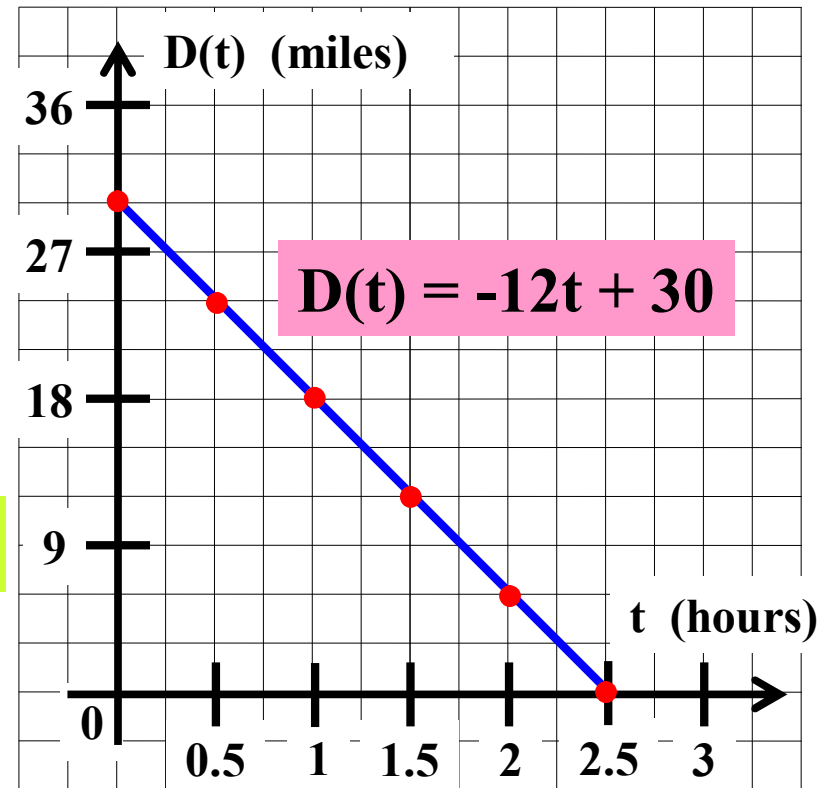
Bird Island

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$$t = 1.25 \text{ hrs.}$$

This represents the time it takes the ferry to be 15 miles from Bird Island.

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Blue Fin Bay



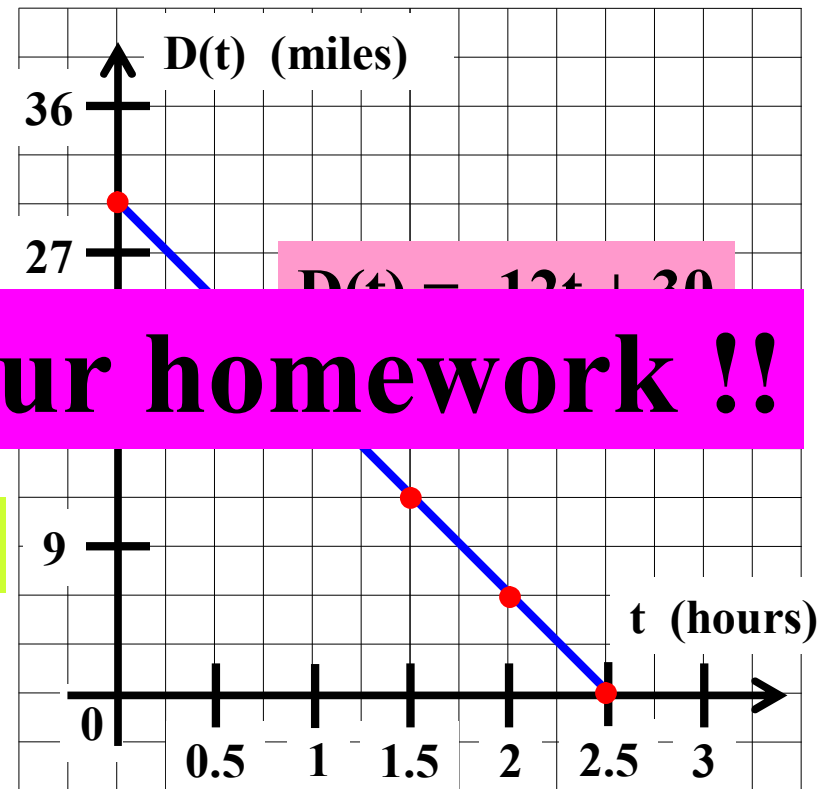
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Good luck on your homework !!

Bird Island

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$t = 1.25$ hrs.

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