Name_____ Date _____ Pd ____ ⑥①

1. Write an equation that describes the situation below: $(y = mx + b)$

a. A taxi cab charges a flat rate of $3.50 plus $0.95 per mile.

2. Write an equation that models the linear relationship in the table below:

x	y
-2	1
0	5
4	13

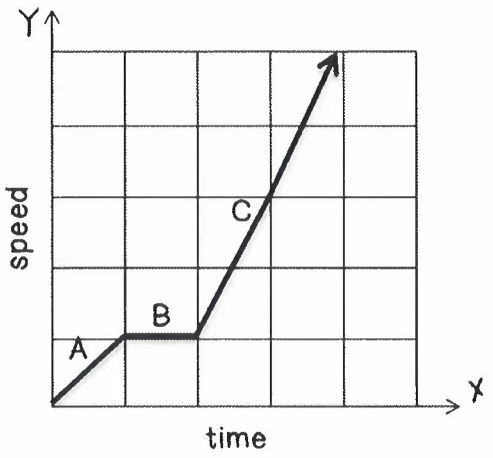
a. slope:

b. y-intercept:

c. equation of line:

$y =$

3. The graph below depicts Jeff's daily walk to school. Answer the questions below.



a. Describe what is happening at B.

Name_____ Date _____ Pd ____ ⑥⑤

1. Write an equation that describes the situation below: $(y = mx + b)$

a. A power company charges an installation fee of $89 and then $0.10 per kilowatt.

2. Write an equation that models the linear relationship in the table below:

x	y
-2	9
0	5
3	-1

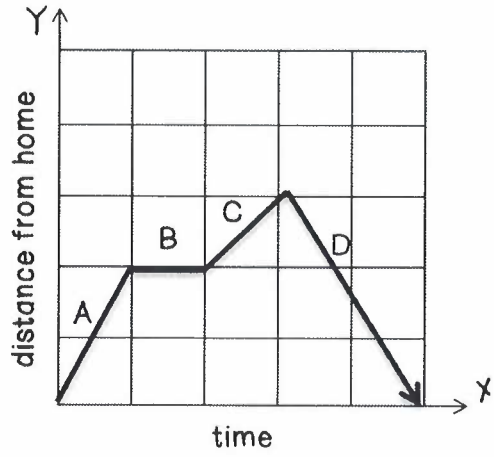
a. slope:

b. y-intercept:

c. equation of line:

$y =$

3. The graph below depicts Jeff's daily walk to school. Answer the questions below.



a. Describe what is happening at point B and D.

Name_____ Date _____ Pd ___ ④③

1. Bethany has $120 in her savings account and spends $8 a week at the candy store. Johnny has $75 in his savings account and spends $3 a week at the candy store.

a. Create a table to represent Bethany and Johnny's spending account.

b. After how many weeks will Bethany and Johnny have the same amount in their savings account?

Name_____ Date _____ Pd ___ ④⑦

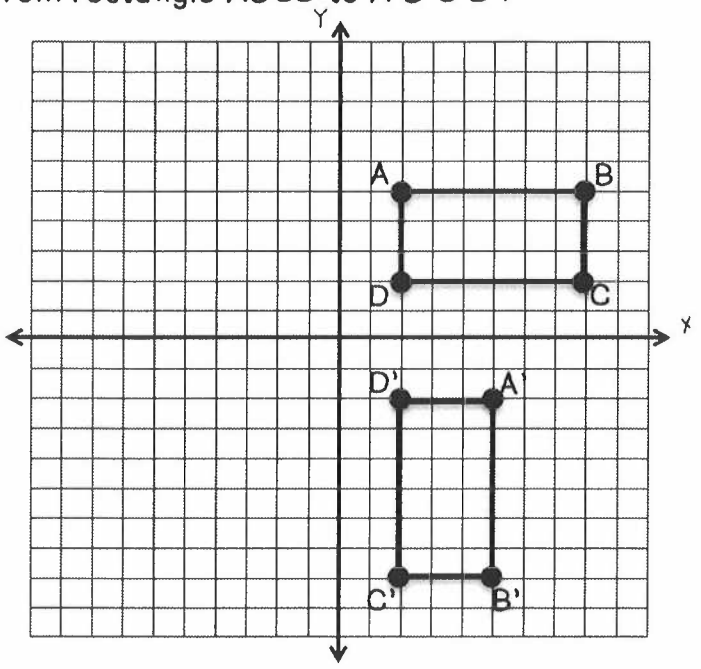
1. A large pizza at Yum Yum Pizza is $6.40 plus $0.80 per topping. At Perfect Pizza's a large pizza costs $7.90 plus $0.50 per topping.

a. Create a table to represent the cost of pizzas at Yum Yum and Perfect Pizza.

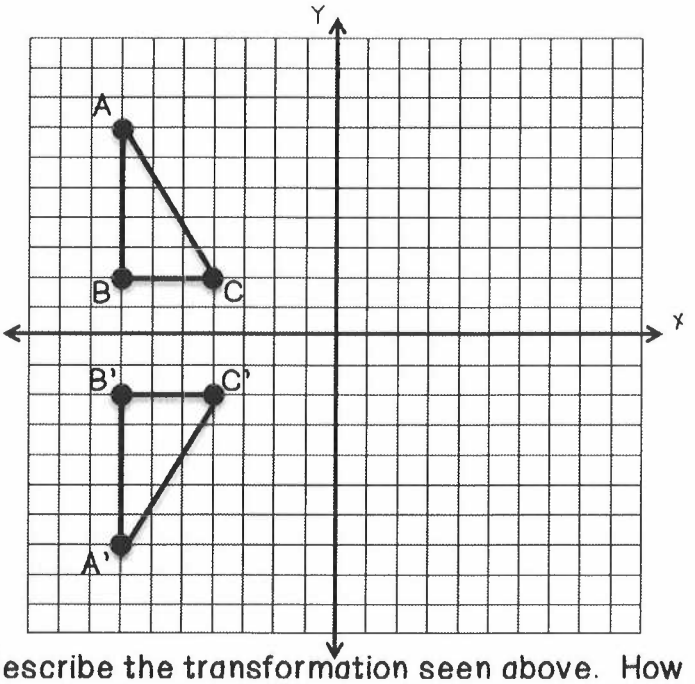
b. After how many toppings will the two pizza's cost the same amount?

Name_____ Date _____ Pd ____ ⑥⑨

1. Describe the sequence of transformations from rectangle ABCD to A'B'C'D'.



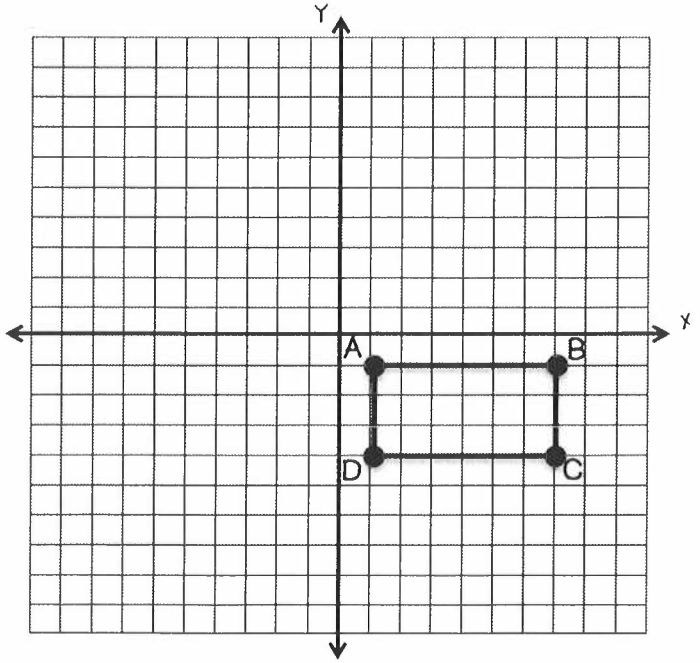
2. Use the graph to answer the question below:



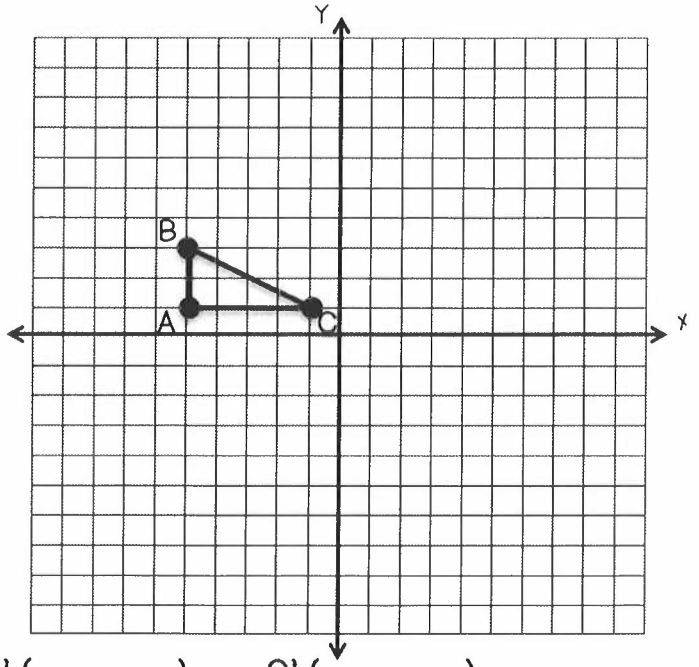
Describe the transformation seen above. How do you know?

Name_____ Date _____ Pd ____ ⑦⓪

1. Translate rectangle ABCD three units to the left and five units up. Label it A'B'C'D'.



2. Figure ABC is dilated by a scale factor of 2. Draw and label the new figure.



A' (,) C' (,)

B' (,)

Name_____ Date _____ Pd ___ ③③

1. Solve, then answer the questions below.

a. $6x - 8 = -4x - 12$

b. How many solutions does this equation have?

1 none infinite

2. Solve, then answer the questions below.

a. $-3x - 15 = -11 - 3x - 4$

b. How many solutions does this equation have?

1 none infinite

Name_____ Date _____ Pd ___ ③④

1. Solve, then answer the questions below.

a. $1.5x + 9 = 4x - 6$

b. How many solutions does this equation have?

1 none infinite

2. Solve, then answer the questions below.

a. half a number plus eight is fourteen minus a number

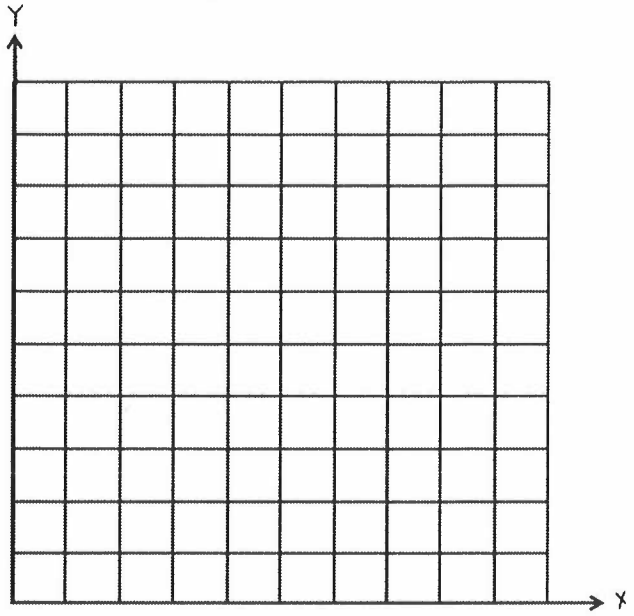
b. How many solutions does this equation have?

1 none infinite

Name_____ Date _____ Pd ___ ④⑤

1. A+ Cellular offers a data plan that charges $2.50 per gig-a-byte plus $9 fee. Thrifty Talk offers a data plan that charges $4 per gig-a-byte and no monthly fee. Use the table below to create a graph of these two accounts.

GB	A+ Cellular	Thrifty Talk
0	$9.00	$0.00
1	$11.50	$4.00
2	$14.00	$8.00
3	$16.50	$12.00
4	$19.00	$16.00



~~A~~

a. What does x represent?

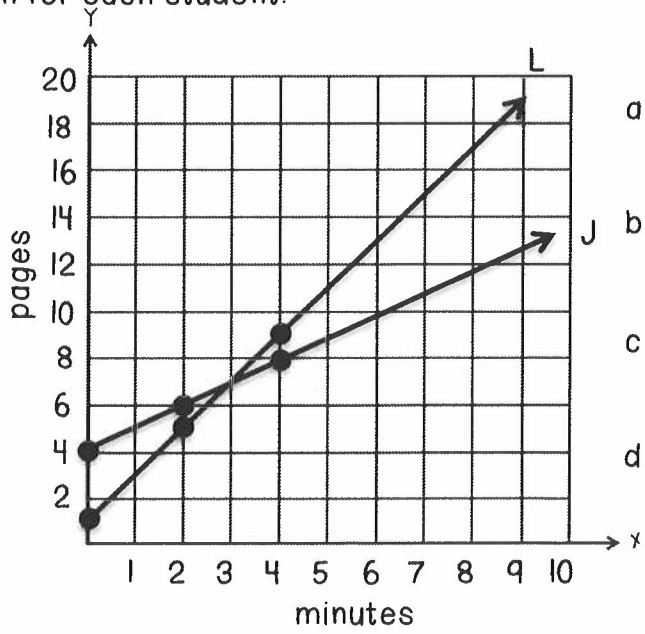
b. What does y represent?

GB

c. After how many ~~weeks~~ GB will they have the same amount in their savings account?

Name_____ Date _____ Pd ___ ④⑥

1. Jake and Lucy are reading the same book in class. Use the graph below to write an equation for each student.



a. What does x represent?

b. What does y represent?

c. Write an equation to represent Lucy.

d. Write an equation to represent Jake.

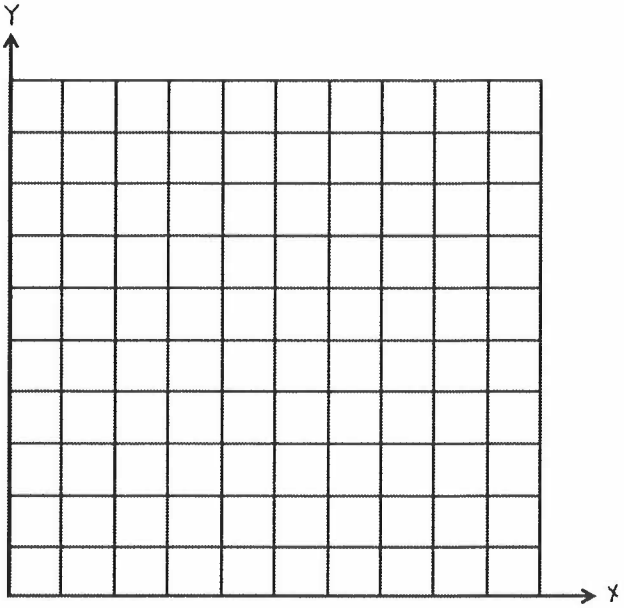
e. After how many minutes will Jake and Lucy be on the same page?

Name_____ Date _____ Pd ___ ④①

1. Sally and her younger sister keep track of their savings accounts. Use the table below to create a graph of these two accounts.

Weeks	Sally	Sister
0	$4	$1
1	$7	$5
2	$10	$9
3	$13	$13

~~A~~



Weeks

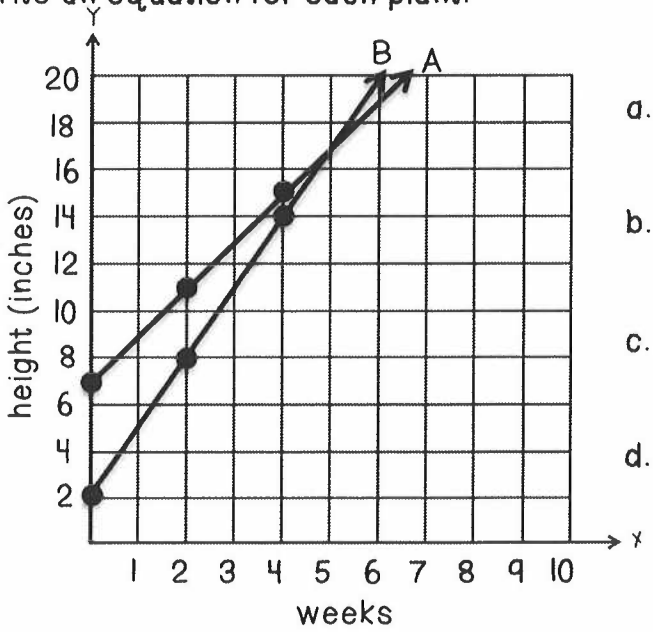
a. What does x represent?

b. What does y represent?

c. After how many weeks will they have the same amount in their savings account?

Name_____ Date _____ Pd ___ ④②

1. Amanda is comparing the heights of plants using two different fertilizers. Use the graph below to write an equation for each plant.



a. What does x represent?

b. What does y represent?

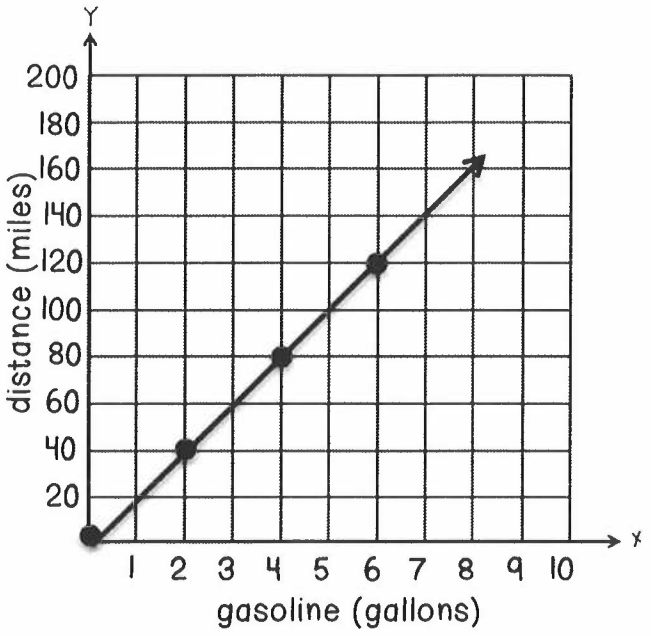
c. Write an equation to represent plant A.

d. Write an equation to represent plant B.

e. After how many weeks will the plants be the same height?

Name_____ Date _____ Pd ___ ③①

1. Use the graph to answer the question below:



What is the rate/slope?

2. Use the equation to answer the questions below:

$$y = 17x$$

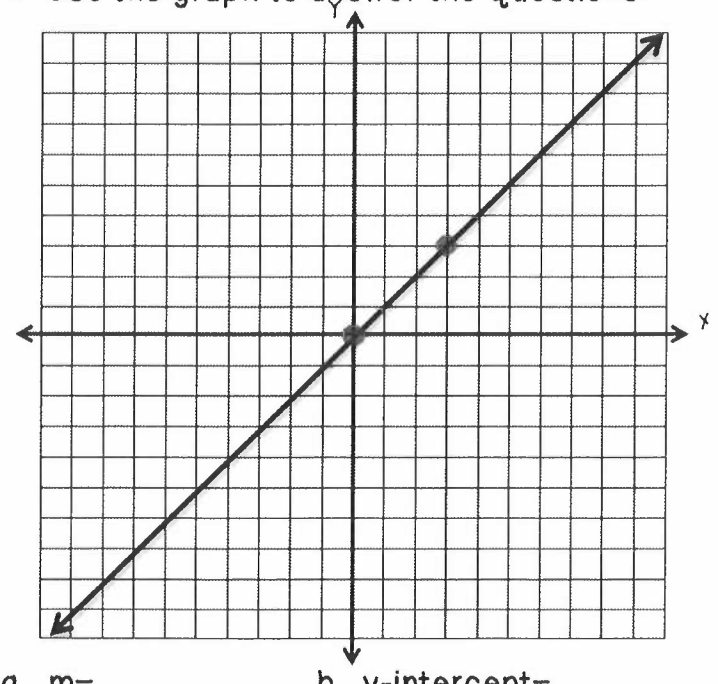
x is the gallons of gasoline
y is the number of miles

What is the rate/slope?

3. Compare the rate in the graph and the equation, describe your thinking.

Name_____ Date _____ Pd ___ ③②

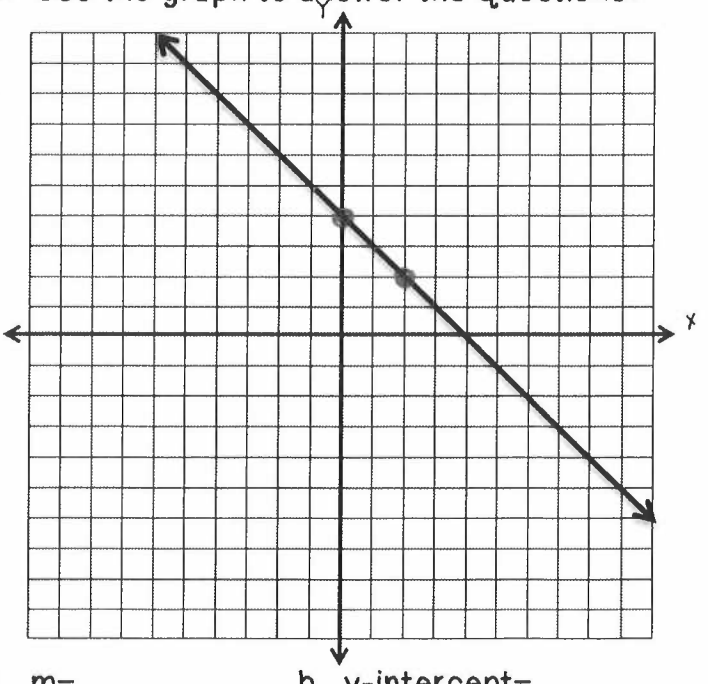
1. Use the graph to answer the questions:



a. m= b. y-intercept=

c. equation:

2. Use the graph to answer the questions:

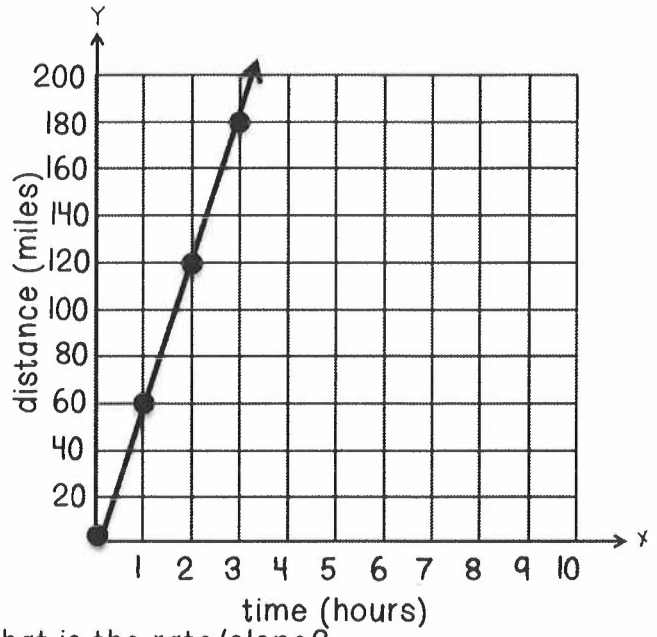


a. m= b. y-intercept=

c. equation:

Name_____ Date _____ Pd ___ ㉙

1. Use the graph to answer the question below:



What is the rate/slope?

2. Use the equation to answer the questions below:

$y = 65x$

x is the time in hours

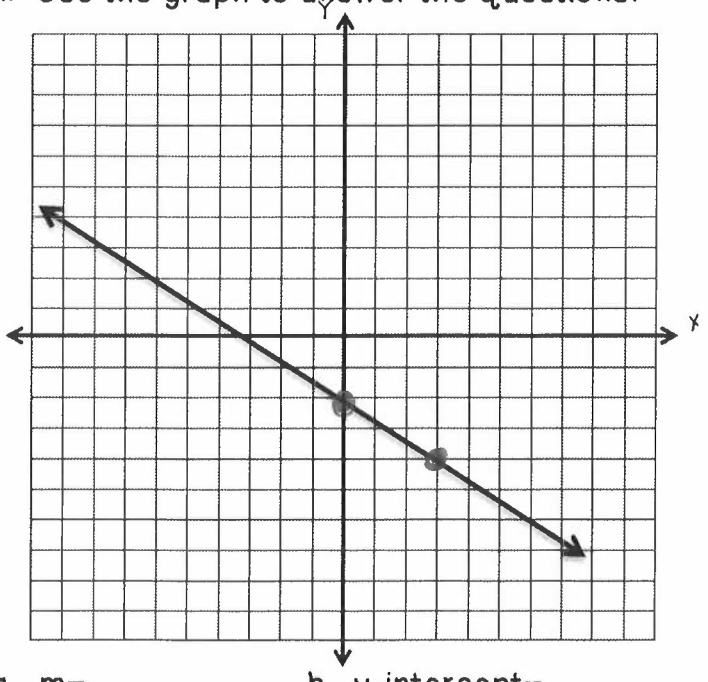
y is the number of miles

What is the rate/slope?

3. Compare the rate in the graph and the equation, describe your thinking.

Name_____ Date _____ Pd ___ ㉚

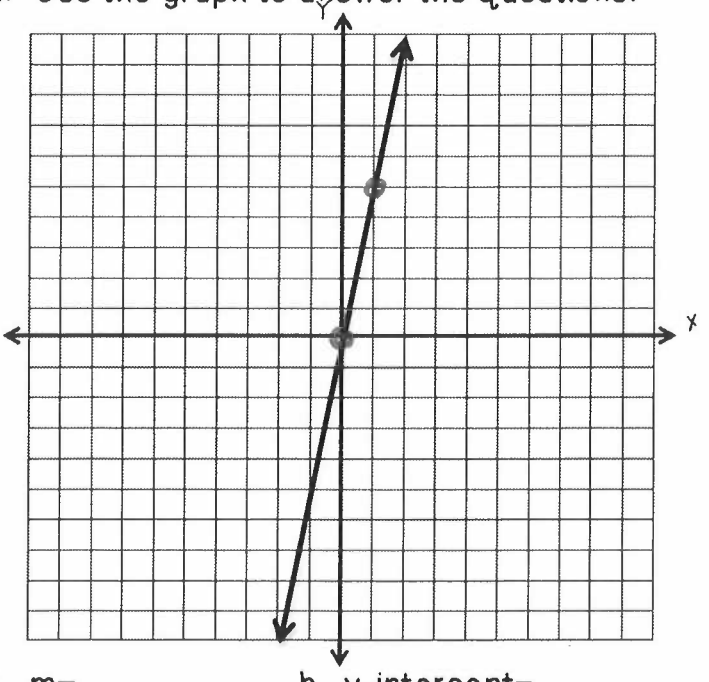
1. Use the graph to answer the questions:



a. m= b. y-intercept=

c. equation:

2. Use the graph to answer the questions:



a. m= b. y-intercept=

c. equation: