

Directions: Show your work for credit. Use your notes and textbook for support

1. Rick wants to predict how much his cable service television will cost each month. He pays a fee of \$59.99 a month for service and \$3.99 for each movie he orders. He lets x represent the number of movies he watches each month and y represent the total cost for his cable service. Which equation can he use to predict how much he will pay each month?

a. $y = 63.98x$

c. $y = 59.99 + 3.99x$

b. $y = 3.99 + 59.99x$

d. $y = 59.99 - 3.99x$

2. What equation could be written for this table?

Show your work

x	0	1	2	3
y	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$

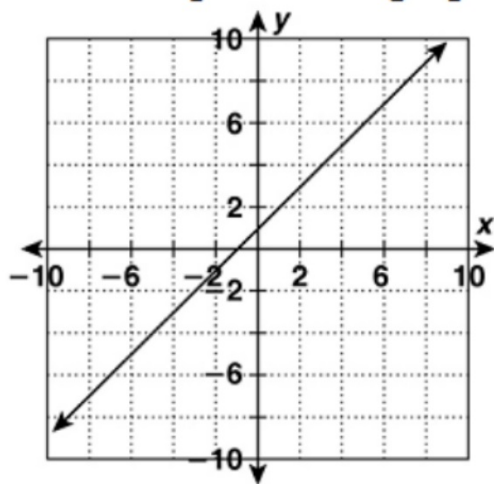
a. $y = x + 2\frac{1}{2}$

c. $y = x + 2$

b. $y = x + 3$

d. $y = \frac{1}{2}x + 3$

3. Which equation is graphed?



a. $y = x + 1$

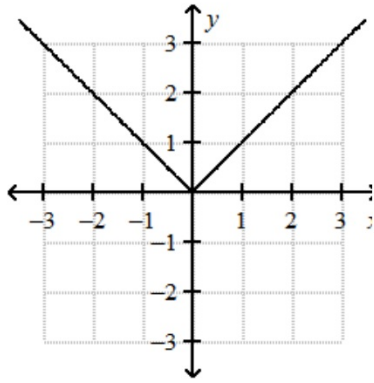
c. $y = -x + 1$

b. $y = x - 1$

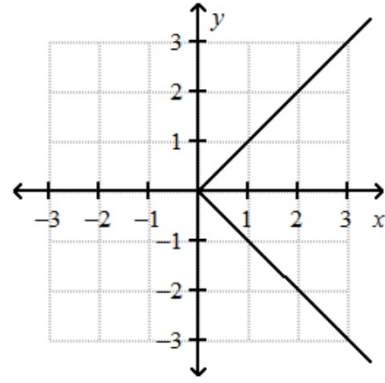
d. $y = -x - 1$



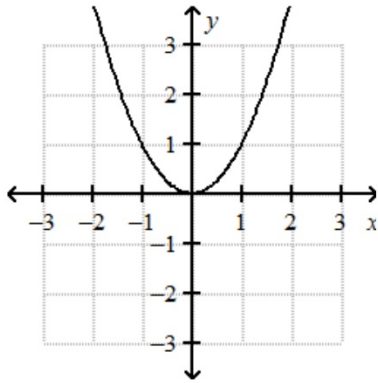
4. Maya sketches a graph of a linear function. Which graph might she have sketched?



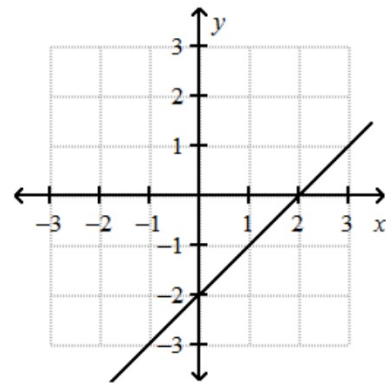
a.



c.

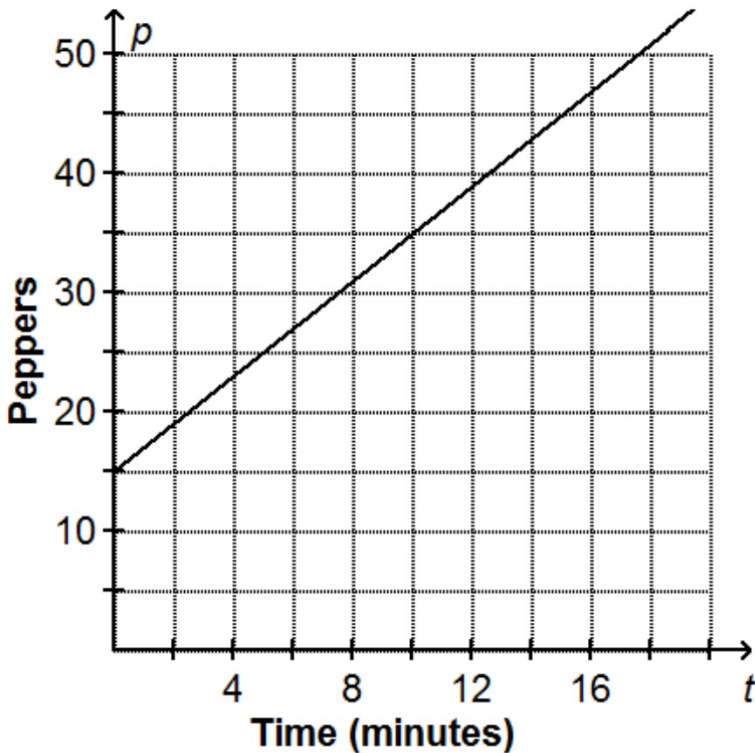


b.



d.

5. A gardener is planting peppers. He planted 15 seeds on the first day of planting. The graph shows the number of peppers, p , planted over time t , in minutes, on the second day.



What is the rate of change?

_____ seeds per minute

What is the initial value?

_____ seeds