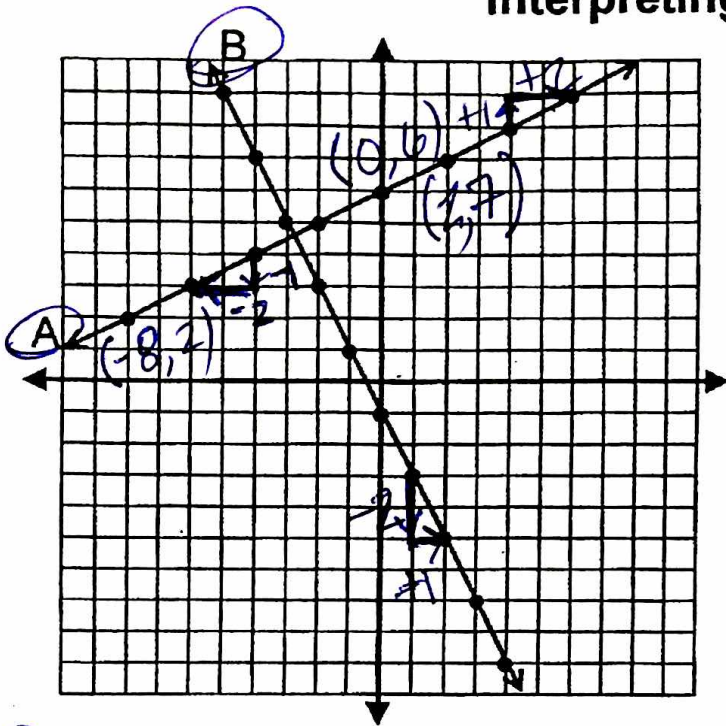


Interpreting Graphs



1. On A, what is the value of y when $x = 2$? 7
2. On A, what is the value of x when $y = 6$? 0
3. On A, what is the value of y when $x = -8$? 2

4. What is the slope of line A? $m = \frac{1}{2}$

5. What is the y-intercept of line A? $b = 6$

6. What is the equation of line A? $y = \frac{1}{2}x + 6$

7. On B, what is the value of y when $x = 1$? -3

8. On B, what is the value of x when $y = -3$? 1

9. What is the slope of line B? $m = \frac{-2}{1}$ or -2

10. What is the y-intercept of line B? $b = -1$

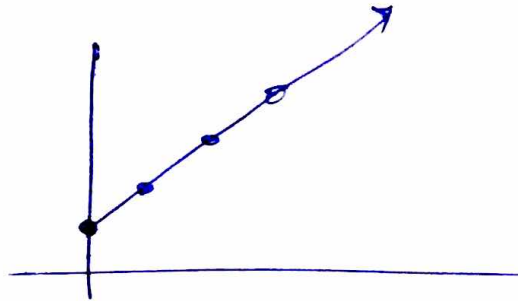
11. What is the equation of line B? $y = -2x - 1$

Interpreting Graphs II

You will spend 65 cents per carton of milk and 85 cents for a package of cookies. The cookies are dry so you must go back many times for another carton of milk. Make a table and write an equation for the amount of money you will spend.

m	C
0	0.85
1	1.50
2	2.15
3	2.80

} 0.65
} 0.65



Equation: $C = 0.65m + 0.85$

$C =$ cost, spent
 $m =$ # of cartons of milk

What is the slope of the line? 0.65 What does it represent?
the rate of change per carton of milk

What is the y-intercept of the line? 0.85 What does it represent?
the starting point on the graph

How much would you spend on 7 cartons of milk and a package of cookies?

$$m = 7$$

$$C = 0.65(7) + 0.85$$

$$C = 5.40$$

What would be your equation if the price of the carton of milk went up to 70 cents and the price of the cookies went up to \$1.00?

$$C = 0.70m + 1.00$$

How much money will you spend if you buy three cartons of milk and a package of cookies at the new prices?

$$m = 3$$

$$C = 0.70(3) + 1.00$$

$$C = 3.10$$