

Name _____

Period _____

Algebra 1 PAP Summer Packet 2018

Show all work for the entire packet when needed. No work = No credit!!!!

Solve the following equations. SHOW ALL WORK!

1. $\frac{3}{2}x = 18$

2. $x - (-24) = -53$

3. $2x - 7 = 21$

4. $\frac{1}{3}x - 5 = -18$

5. $5(2x - 4) = -30$

6. $-4(x - 5) + 2 = 48$

Name _____

Period _____

Evaluate the following expressions when given $a = 2$, $b = \frac{1}{2}$, and $c = -3$.

7. $3ab + 6$

8. $5a + 4c - b$

9. $a(8b - c)$

10. If 2 gallons of lemonade cost \$4.50, how much will 9 gallons cost?

11. If we drive 700 miles in 12 hours, about how long would it take to drive 940 miles?

12. Pizza Co. is selling cheese pizza for \$8.00. Each additional topping is \$0.50.

a) Write an equation to represent this situation.

b) If a pizza cost \$16.00, how many toppings were added?

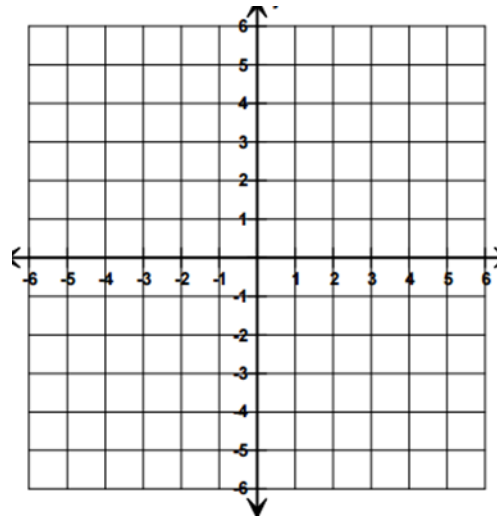
c) If you order a pizza with 3 toppings, how much would it cost?

Name _____

Period _____

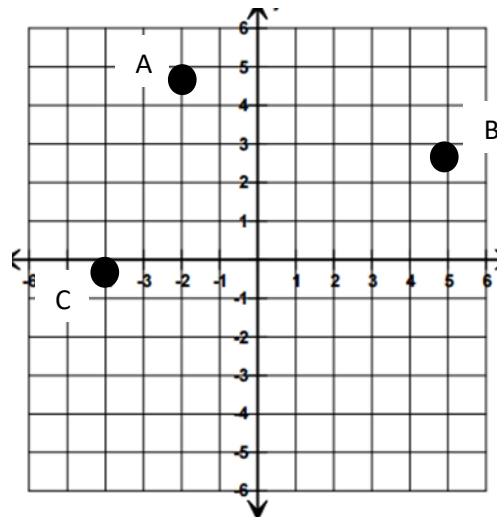
13. Label each part of the coordinate plane shown below.

- a) Label the x-axis.
- b) Label the y-axis.
- c) Label the origin.
- d) Label each Quadrant.



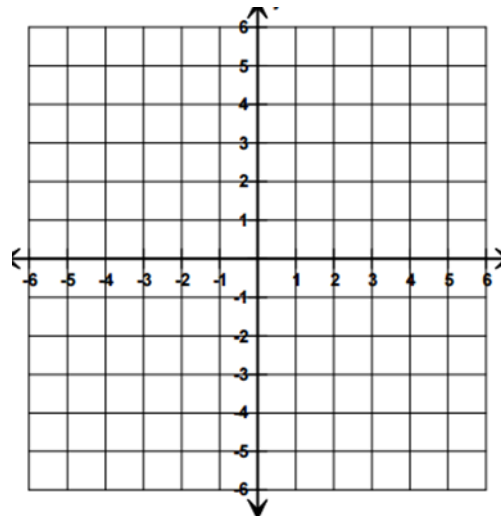
14. Write the ordered pair for each point graphed below. Then name the quadrant in which each point lies.

- a) A: _____ Quadrant: _____
- b) B: _____ Quadrant: _____
- c) C: _____ Quadrant: _____



15. Graph and label each point on a coordinate plane. Name the quadrant in which each point lies.

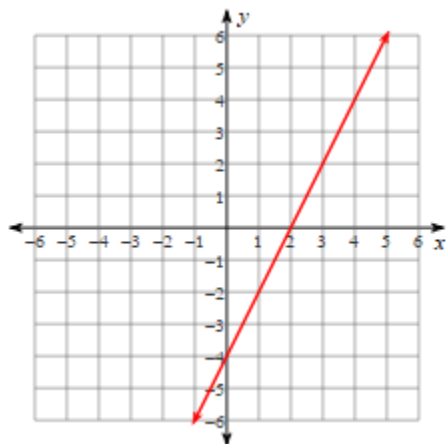
- a) D (2,4) Quadrant: _____
- b) E (3,-5) Quadrant: _____
- c) F (-4,-4) Quadrant: _____
- d) G (-5,1) Quadrant: _____
- e) H (-2,-6) Quadrant: _____



Name _____

Period _____

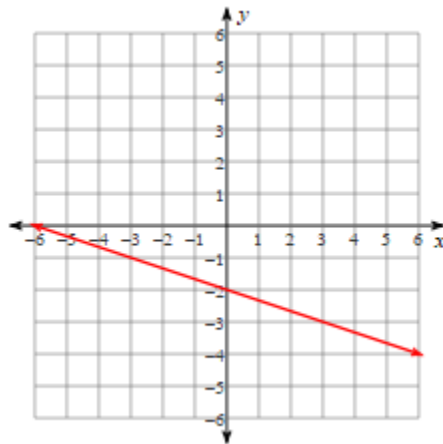
Given the following graphs, identify the slope, y-intercept, and write an equation in slope-intercept form.



16. Slope _____

Y-intercept _____

Equation _____



17. Slope _____

Y-intercept _____

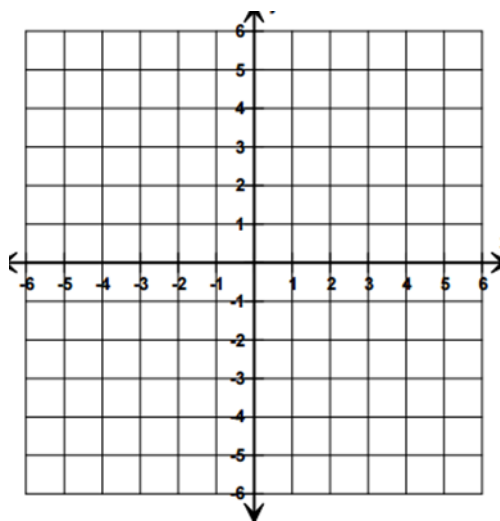
Equation _____

Graph the given equation and identify the slope and y-intercept for each.

18. $y = 5x - 4$

Slope _____

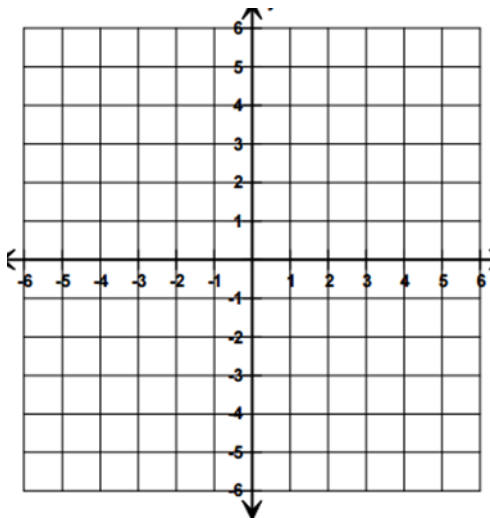
y-intercept _____



19. $y = -\frac{4}{3}x + 2$

Slope _____

y-intercept _____



20. Given a table, find the rate of change.

Rate of change = _____

x	-1	0	1	2
y	5	2	-1	-4