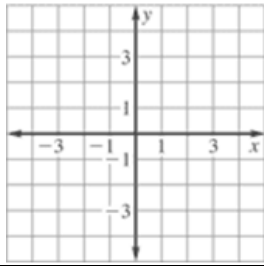


Name: _____ Per: _____

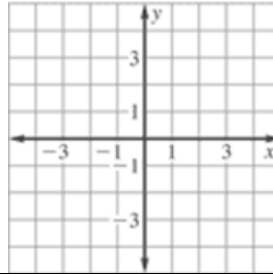
Honors I – Chapters 3 & 4 PRACTICE Test

SHOW ALL YOUR WORK

1. Graph $y = -3$ and state its slope: _____



2. Graph $x = 1$ and state its slope: _____



Find the slope of the line passing through the points.

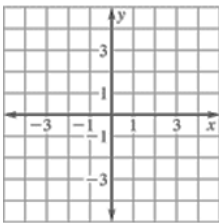
3. $(2, 9)$ and $(6, 15)$

4. $f(-1) = 4.5$ and $f(-4) = -14.75$

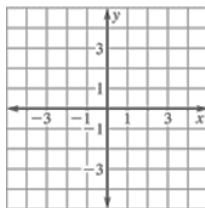
5. $(-2, \frac{9}{4})$ and $(1, \frac{15}{2})$

Graph each equation.

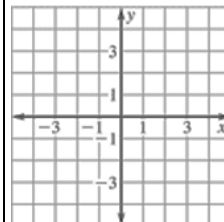
6. $6x - 3y = -15$



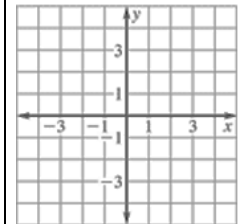
7. $y + 1 = -\frac{1}{3}x$



8. $y + 2 = -\frac{2}{3}(x + 4)$



9. $y = 2x - 1$



10. Write the equation (in some point-slope form) for the equation of the line that goes through the point $(-4, 2)$ with a slope of 1.5.

11. Write the equation, in slope-intercept form, for the equation of the line that goes through the points $(5, 0)$ and $(3, 7)$.

12. Find the value of k so that the line passing through the two points has the given slope.

$$(3k, 2), (5, 6), \quad m = \frac{2}{7}$$

$k =$ _____

13. Find the value of A and B so the line goes through the point $(-5, 0)$ and $(0, 2)$.

$$Ax + By = 20$$

$A =$ _____ and $B =$ _____

14. Find the equation for the line that is parallel to $y = \frac{1}{3}x + 4$ and goes through the point (1, -2).

15. Find the equation for the line that is perpendicular to $y = \frac{1}{3}x + 4$ and goes through the point (1, -2).

16. The cost for a large sno cone at the fair is \$4 and the cost for a small sno cone is \$2. Let x = number of large cones and y = number of small cones. Write an equation relating the money spent on large and small cones if one has \$20 to spend.

Equation: _____

Now, name three different combinations of small and large cones that can be purchased.

Combination 1: (,)

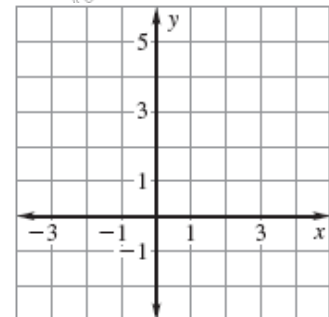
Combination 2: (,)

Combination 3: (,)

For the problems below, use the table and graph shown to the right.

x	-1	0	1	2	3
y	5	3	2	0	-2

17. Plot the points, draw in a line of best fit and find an equation for your line of best fit.



Equation: _____

18. Use your equation to estimate the value of y when x is 20.

19. Describe whether each graph should produce a positive, negative or no correlation when plotted.
a) Graph comparing years of education and entry salary.

b) Graph comparing elevation and oxygen levels.

c) Graph comparing height and GPA.

20. The function $C(x) = 4 + 1.25x$ represents the cost for downloading x songs.

Find and interpret each (in real-life terms) below.

$C(5) =$

$C^{-1}(x) =$

$C^{-1}(14) =$