## Quiz \#3 - Gines and binear Equations

Name: $\qquad$ Class: $\qquad$

## *Each multiple-choice question is worth 2 points*

1.) What is the slope of a line that passes through points $(-4,2)$ and $(6,8)$ ?
(A) $-\frac{3}{5}$
(B) $\frac{3}{5}$
(C) $\frac{5}{3}$
(D) $-\frac{5}{3}$
2.) What is $-x+4 y=-8$ in slope-intercept form?
(A) $y=-\frac{1}{4} x-2$
(C) $y=\frac{1}{4} x-2$
(B) $y=-\frac{1}{4} x-8$
(D) $y=\frac{1}{4} x-8$
3.) What is the $y$-intercept of $y=-\frac{3}{5} x-7$ ?
(A) $\frac{3}{5}$
(B) $-\frac{3}{5}$
(C) 7
(D) -7
4.) What is the slope of the line whose equation is $2 y=5 x+4$ ?
(A) 5
(B) $\frac{5}{2}$
(C) 2
(D) $\frac{2}{5}$
5.) What is the slope of line $\ell$ in the accompanying diagram?
(A) $-\frac{3}{2}$
(C) $-\frac{2}{3}$
(B) $\frac{2}{3}$
(D) $\frac{3}{2}$
6.) What is the slope of $4 x-2 y=-6$ ?
(A) -6
(C) -2
(B) 2
(D) 4

7.) Which line has the steepest positive slope?
(A)

(B)

(C)

(D)

8.) Which pair of points determines a line that is parallel to the $y$-axis?
(A) $(1,3)$ and $(-2,3)$
(C) $(1,-1)$ and $(-1,1)$
(B) $(2,3)$ and $(2,5)$
(D) $(1,1)$ and $(-3,-3)$
9.) Complete the table of values below. Then, graph the line. (4 points)

each question algebraically.
10.) Write the equation of a line with a slope of -1 and a y-intercept of 5 . Graph the line on the graph paper provided. (3 points)
11.) Write the equation of a line with a slope of -4 that passes through the point $(1,2)$. Graph the line on the graph paper provided. (4 points)
12.) Write the equation of a line containing the point $(4,2)$ and a slope of $\frac{3}{2}$. Graph the line on the graph paper provided. (4 points)
13.) Write the equation of a line passing through the points $(1,7)$ and $(-2,-8)$. Graph the line on the graph paper provided. (4 points)
14.) Find and graph the equation of a horizontal line that passes through the point $(3,8)$. Graph the line on the graph paper provided. (4 points)
15.) Find and graph the equation of a line that passes through the points $(3,3)$ and $(3,7)$. Graph the line on the graph paper provided. (4 points)
16.) Consider the line $3 y+4 x=9$.
a.) Put the line in slope-intercept form and then graph it. ( 3 points)
b.) Find and graph the equation of a line that is parallel to the line and passes through the point $(6,-1)$.
(4 points)


