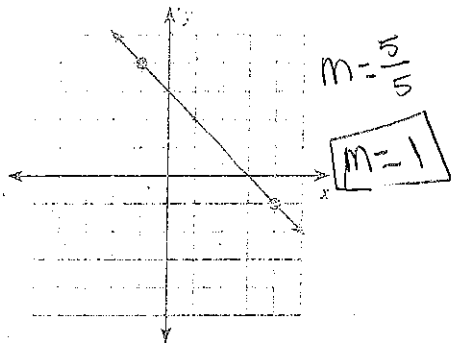
Algebra 1 Name _____

Linear Functions Homework

Date _____ Period ____

Find the slope of each line.

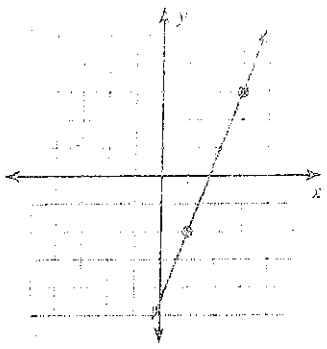
1)



$m = \frac{5}{5}$

$m = 1$

2)



$m = \frac{5}{2}$

Find the slope of the line through each pair of points.

3) $(18, -4), (13, 3)$

$\frac{3+4}{13-18} = \frac{7}{-5}$

4) $(9, -17), (18, -2)$

$\frac{-2+17}{18-9} = \frac{15}{9} = \frac{5}{3}$

5) $(10, 8), (19, -16)$

$\frac{-16-8}{19-10} = \frac{-24}{9} = -\frac{8}{3}$

6) $(11, -20), (3, -2)$

$\frac{-2+20}{3-11} = \frac{18}{-8}$

$-\frac{9}{4}$

Find the slope of each line.

7) $y = -\frac{7}{5}x + 4$

$-\frac{7}{5}$

8) $y = -1$

$m = 0$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

9) Slope = 4, y-intercept = –3

$y = 4x - 3$

10) Slope = 10, y-intercept = 5

$y = 10x + 5$

Write the slope-intercept form of the equation of each line. (HINT: Rearrange and solve for y)

11) $5x - 2y = -10$

$\frac{-2y}{-2} = \frac{-5x + 10}{-2}$

$y = \frac{5}{2}x - 5$

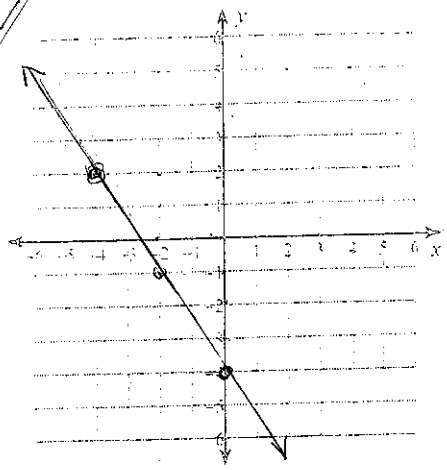
12) $2x - y = -7$

$-y = -2x - 7$

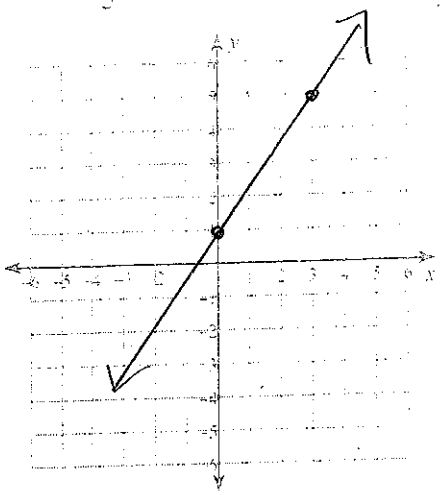
$y = 2x + 7$

e graph of each line.

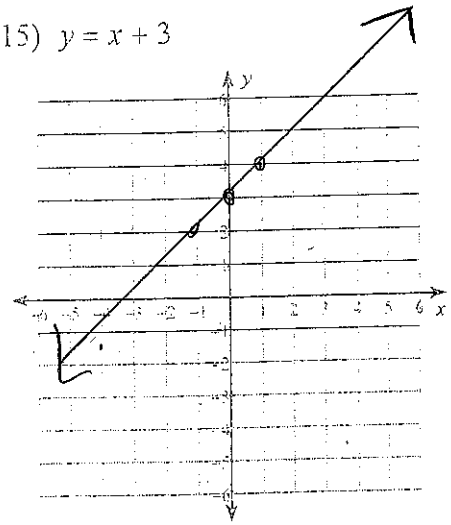
13) $y = -\frac{3}{2}x - 4$



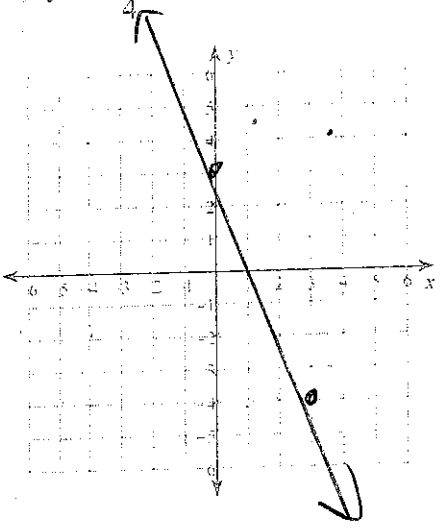
14) $y = \frac{4}{3}x + 1$



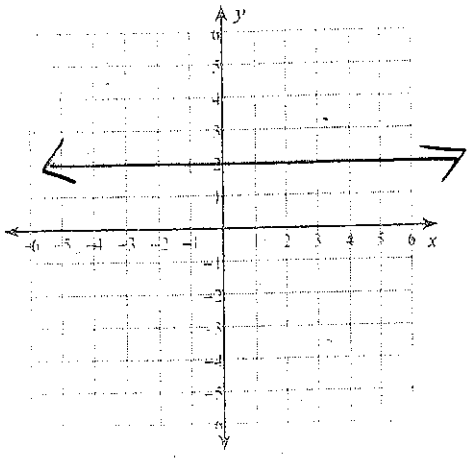
15) $y = x + 3$



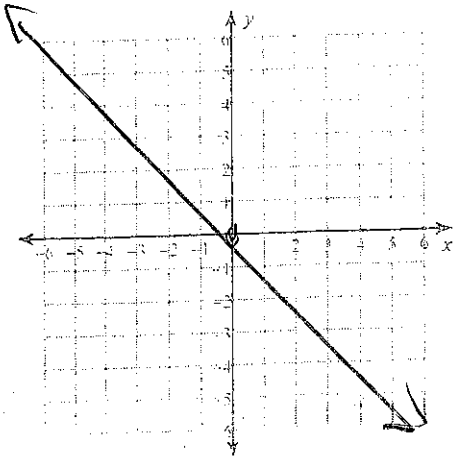
16) $y = -\frac{7}{4}x + 3$



17) $y = 2$



18) $y = -x$



17