Algebra 1 Name_____ ID: 1

Assignment Graphing Day 2 Date_____ Period____

Determine the slope of the lines Parallel and Perpendicular to the following functions.

1) $y = \frac{3}{4}x + 2$

2) $y = -x - 1$

3) $y = x + 2$

4) $y = 2x + 3$

Write the point slope form of the equation of the line through the given point with the given slope.

5) through: $(3, -3)$, slope $= -\frac{1}{2}$

6) through: $(4, 5)$, slope $= 1$

7) through: $(5, -4)$, slope $= -\frac{8}{5}$

8) through: $(-5, 4)$, slope $= -\frac{3}{5}$

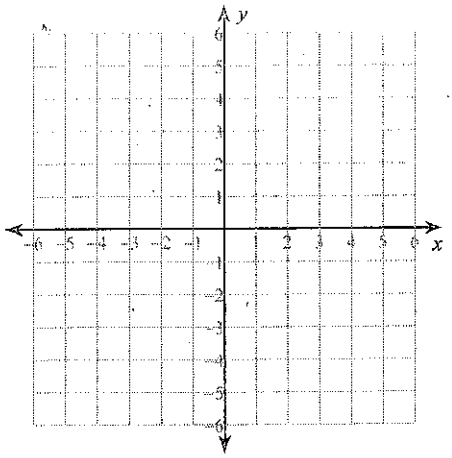
Determine a point and the slope of the following linear functions.

9) $y + 1 = -\frac{3}{4}(x + 4)$

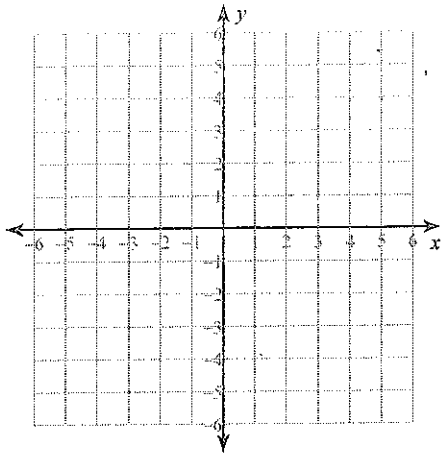
10) $y + 5 = -\frac{3}{4}(x - 4)$

Sketch the graph of each line.

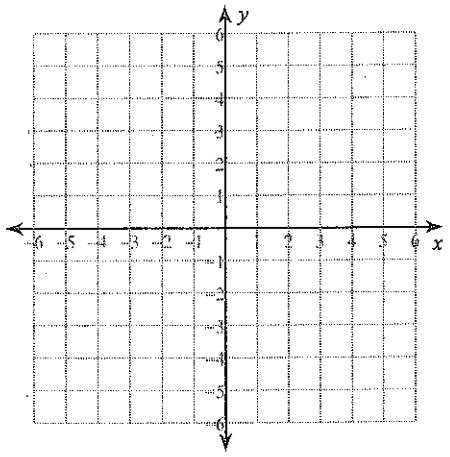
11) $y = 3x - 4$



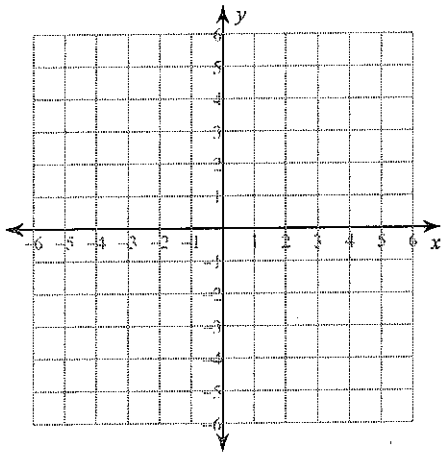
12) $y = -3$



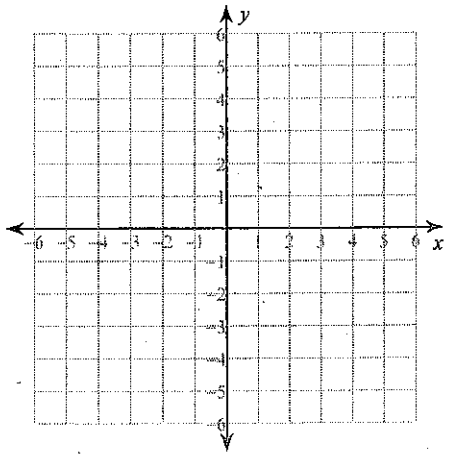
13) $y = \frac{3}{2}x + 4$



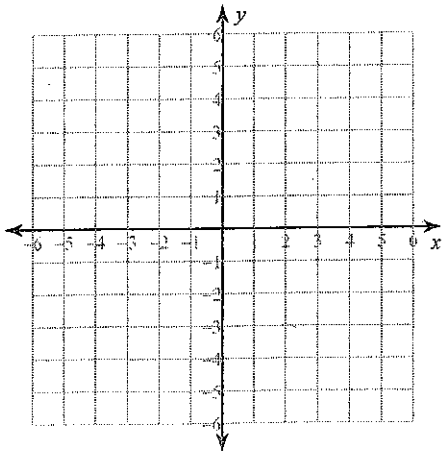
14) $y = -x + 2$



15) $x - y = 2$



16) $4x + 5y = 20$



Algebra 1 Name Key ID: 1

Assignment Graphing Day 2 Date _____ Period ____

Determine the slope of the lines Parallel and Perpendicular to the following functions.

1) $y = \frac{3}{4}x + 2$

$\parallel = 3/4$

$\perp = -4/3$

2) $y = -x - 1$

$\parallel = -1$

$\perp = 1$

3) $y = x + 2$

$\parallel = 1$

$\perp = -1$

4) $y = 2x + 3$

$\parallel = 2$

$\perp = -\frac{1}{2}$

Write the point slope form of the equation of the line through the given point with the given slope.

5) through: $(3, -3)$, slope $= -\frac{1}{2}$

$y + 3 = -\frac{1}{2}(x - 3)$

6) through: $(4, 5)$, slope $= 1$

$y - 5 = 1(x - 4)$

7) through: $(5, -4)$, slope $= -\frac{8}{5}$

$y + 4 = -\frac{8}{5}(x - 5)$

8) through: $(-5, 4)$, slope $= -\frac{3}{5}$

$y - 4 = -\frac{3}{5}(x + 5)$

Determine a point and the slope of the following linear functions.

9) $y + 1 = -\frac{3}{4}(x + 4)$

$m = -3/4$

$pt = (-4, -1)$

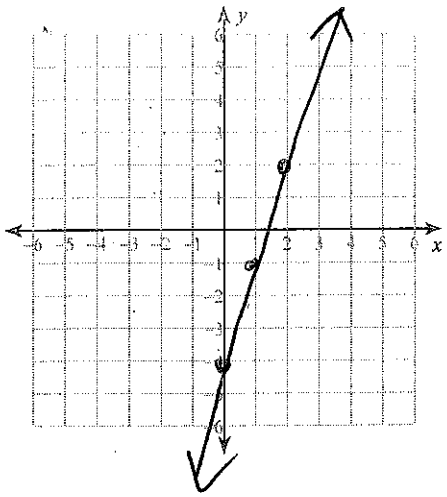
10) $y + 5 = -\frac{3}{4}(x - 4)$

$m = -3/4$

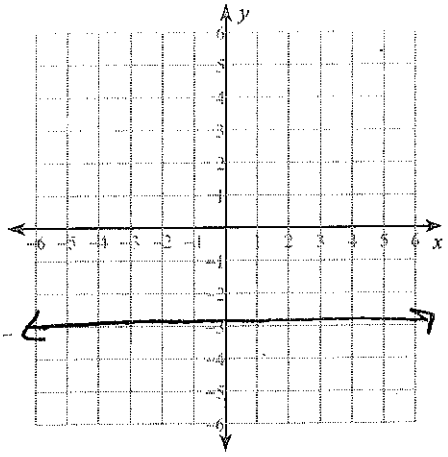
$pt = (4, -5)$

Sketch the graph of each line.

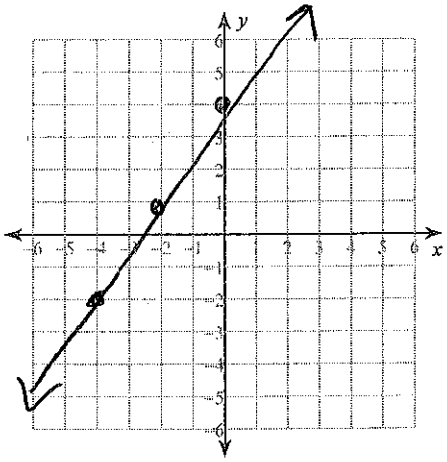
11) $y = 3x - 4$



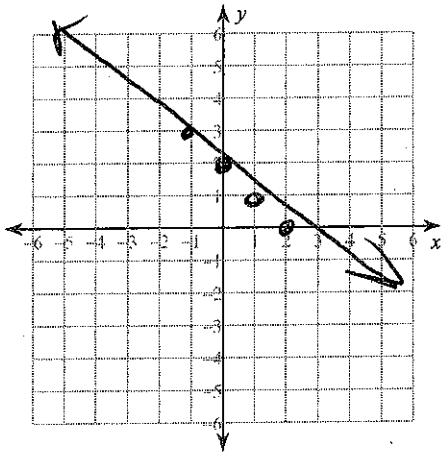
12) $y = -3$



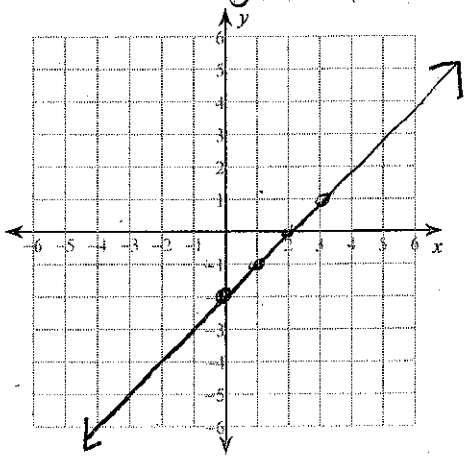
13) $y = \frac{3}{2}x + 4$

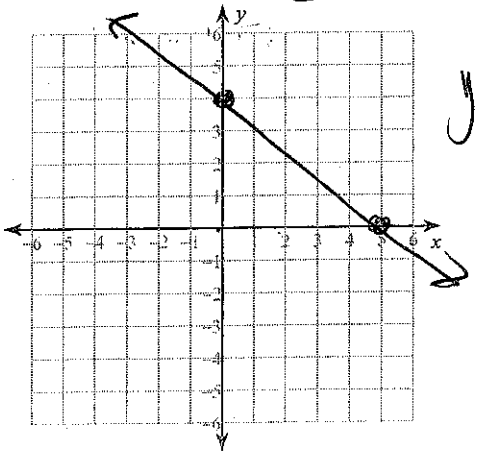


14) $y = -x + 2$



15) $x - y = 2$ $y = x - 2$



16) $4x + 5y = 20$ $\frac{5y}{5} = \frac{-4x}{5} + \frac{20}{5}$

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