Due:

Please complete the following on a separate piece of paper.

1. State the slope and the y-intercept for the line represented by each equation.

a)
$$y = 3x + 5$$

b)
$$y = -2x + 3$$

c)
$$y = \frac{2}{5}x - 4$$

a)
$$y = 3x + 5$$
 b) $y = -2x + 3$ c) $y = \frac{2}{5}x - 4$ d) $y = -\frac{1}{2}x + 6$

e)
$$y = -4x - 7$$

e)
$$y = -4x - 7$$
 f) $y = \frac{3}{8}x - \frac{5}{2}$ g) $y = \frac{4}{3}x - 2$ h) $y = \frac{9}{5}x + 1$

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

h)
$$y = \frac{9}{5}x + 1$$

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

a)
$$m = 2, b = 3$$

b)
$$m = -1, b = 4$$

a)
$$m = 2, b = 3$$
 b) $m = -1, b = 4$ c) $m = \frac{2}{3}, b = -1$

d)
$$m = -\frac{4}{5}, b = 8$$
 e) $m = -3, b = \frac{5}{2}$ f) $m = 0, b = 3$

e)
$$m = -3, b = \frac{5}{2}$$

f)
$$m = 0, b = 3$$

(12)

(16)

3. Graph the line represented by each equation.

a)
$$y = \frac{2}{5}x + 3$$

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

a)
$$y = \frac{2}{5}x + 3$$
 b) $y = \frac{3}{4}x - 2$ c) $y = -\frac{1}{2}x + 1$ d) $y = -\frac{3}{2}x - 1$
e) $y = 2x - 3$ f) $y = -x + 5$ g) $y = -3x + 2$ h) $y = 0x - 4$

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

e)
$$y = 2x - 3$$

f)
$$y = -x + 5$$

g)
$$y = -3x + 2$$

h)
$$y = 0x - 4$$

(16)

4. Graph the line represented by each equation.

a)
$$3x - 2y = 4$$
 b) $2x + 4y = 5$ c) $4x - y = -2$

b)
$$2x + 4y = 5$$

c)
$$4x - y = -2$$

(6)