Chapter 6 Review

Part 1:

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

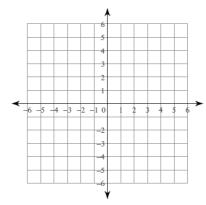
Part 2:

Write the following equations in slope-intercept form, and then state the slope, y-intercept and x-intercept.

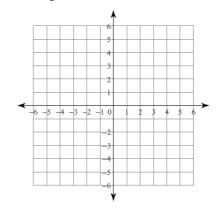
d)
$$y = \frac{9x}{2} - 4$$

Part 3: Graph the following

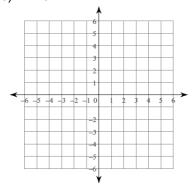
a)
$$y = \frac{6}{5}x - 2$$



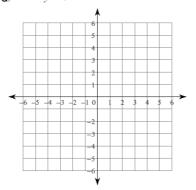
b) 2)
$$y = \frac{4}{3}x + 1$$







d)
$$2x + y = 5$$



Part 4:

Write the general form of the equation of each line given

a) Slope =
$$-\frac{3}{5}$$
, y-intercept = 5

Part 6:

Write the equation of a line in point slope form and in then slope intercept form for each of the following:

Part 7:

Which of the following are perpendicular or parallel?

a)
$$y = 3x + 6$$
, $y = 3x - 3$

b)
$$y = \frac{-1}{2}x - 5$$
, $y = 2x + 5$

Part 8:

Write the equation of a line, in point slope form for the following:

a)through: (2, 0), parallel to
$$y = \frac{2}{3}x$$

b)through: (-2, 4), parallel to
$$y = -\frac{3}{2}x + 3$$

c) through: (2, 4), perp. to
$$y = -\frac{2}{7}x - 5$$

d)through:
$$(5, 0)$$
, perp. to $y = -x + 5$

Part 9:

Write the equation of a line for the following:

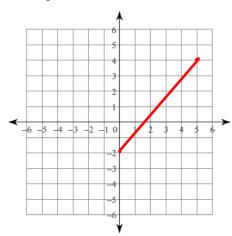
- a) Find the equation of a line that passes through (-2,4) and has ae slope perpendicular to y = 2x + 3.
- b) Find the equation of a line that passes through the points (1,-3) and (-5,2)
- c) Find the equation of a line that passes through the points (2,5) and (-11,-3)
- d) Find the equation of a line that has the same x-intercept as this equation 6x + 12 = 3y, and also passes through the point (3,-5).

Part 10:

Determine the distance and midpoint for the following lines

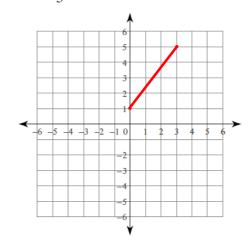
Part 3: Sketch the graph of the following lines

a)
1)
$$y = \frac{6}{5}x - 2$$

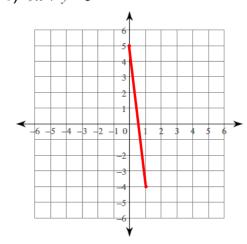


2)
$$y = \frac{4}{3}x + 1$$

b)



c)
$$9x + y = 5$$



d
$$2x + y = 5$$
 $y = -2x + 5$

