Name: _____

Date: _____ Period: _____ Score: _

Answer the following:

- 1) In which quadrant of the number plane does each point lie?
 - a. (-4,7) c. (2,-8)
 - b. (9,12) d. (-4,-13)
- 2) Determine by substitution whether each point lies on the line y = 4x + 7.
 - a. (3,14) c. (-2,-1)
 - b. (0,7) d. $(\frac{1}{2}, 15)$
- 3) Find the value of k if (k,7) lies on the line y = 3x 5.
- 4) State whether the following lines increase or decrease from left to right.
 - a. y = 4x c. y = 5 x
 - b. y = -2x + 1 d. $y = \frac{x}{2} 3$
- 5) State the y-intercept of each line.
 - a. y = x + 5 c. y = 8 x
 - b. y = 3x 2 d. $y = \frac{x}{3} + 4$
- 6) Write down the co-ordinates of the point of intersection of the lines y = 1 and x = -2.
- 7) Find the equation of the line that passes through the point:
 - a. (5,2) and is parallel to the y-axis
 - b. (-1, -3) and is parallel to the x-axis
- 8) a. Show by substitution that B(3,7) lies on both the lines y = 3x 2 and y = 4x 5. b. What does this tell you about the lines?

NAME: _____

Answer Key

- 1) a. II
 - b. I
 - c. IV
 - d. III
- 2) a. no
 - b. yes
 - c. yes
 - d. no
- 3) $k = \frac{2}{3}$
- 4) a. increase
 - b. decrease
 - c. decrease
 - d. increase
- 5) a. 5
 - **b.** −2
 - c. 8
 - d. 4
- 6) (-2,1)
- 7) a. x = 5
 - b. y = -3
- 8) a. 7=3(3)-2=7 7=4(3)-5=7
 - b. the lines intersect at (3,7)