Geometry
Cumulative Review 1-4

Name_____
Period_____

Solve for x:

1.) $2x-(x+4)=9$

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

3.) $\frac{2x+3}{5} = 11$

4.) $\frac{1}{4}x + 5 = -8$

Solve each system of equation & give answers as a coordinate:

5.) $2x + y = 8$
$x - y = 4$

6.) $2x + 3y = 1$
$x + y = 1$

7.) $y = 2x - 5$
$x - 3y = -5$

$$x = \frac{-b \pm \sqrt{b^2-4ac}}{2a}$$

Solve each quadratic equation:

8.) $x^2 - 7x + 12 = 0$

9.) $3x^2 - 5 = 2x^2 - 4x$

10.) $x^2 - 9 = 0$

Find the length of AB: (Round to 10ths if needed)

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

11.) A(0,4), B(0,-8)

12.) A(-2,1), B(-2,5)

Find the midpoint:

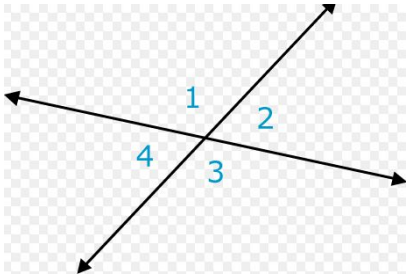
13.) A(3,-1), B(-3,5)

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Set up an equation and solve for x using the picture to the right:

14.) < 1= 9x + 6 & < 3 = 7x + 12

15.) < 2 = 2x + 11 & < 3 = 3x + 4



Use the picture to the right to set up an equation and solve for x for each of the following:

16.) < 5 = 8x + 13 & < 8 = 2x + 7

17.) < 13 = 3x + 13 & < 15 = 6x - 5