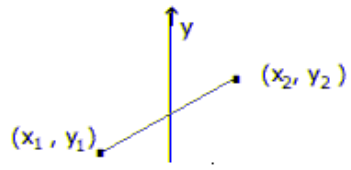


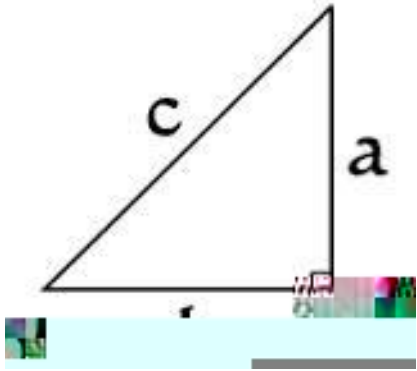
Complete the following problems on a separate sheet of notebook paper. Include the formula needed for each problem and ALL supporting work for the solution. This assignment will be due the next week of school for

x_2 and y_2 are the x,y coordinates for one point
 x_1 and y_1 are the x,y coordinates for the second point

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



$$a^2 + b^2 = c^2$$



Use the Distance Formula to find the length between the two points in problems 16 and 17.



Mid-point Formula

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

Find the midpoint of the line segment with the given endpoints.

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

Find the midpoint of the line segment with the given endpoints.

20) $(-4, 6), (-3, 6)$

21) $(1, -1), (-6, 1)$



Find the midpoint of the line segment with the given endpoints.

22) Endpoint: $(1, 3)$, midpoint: $(-2, 3)$ 24) Endpoint: $(5, -5)$, midpoint: $(-3, -1)$

25) E

