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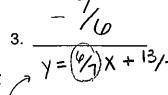
_____ Hour: __

Unit J Exam Review

 X_1, Y_2 X2 Y2 A line contains points (-3, 3) and (1, 2). 1. What is the slope of this line?

$$\frac{Y_2 - Y_1}{X_2 - X_1} = \frac{2 - 3}{1 + 3} = \frac{-1}{4}$$

If a line has slope 2, each line perpendicular to it has slope $\frac{-1/2}{2}$ and each 2. OPP./rec. same



Give the coordinates of the midpoint of the 4. segment joining (2, 3) and (4, -2).



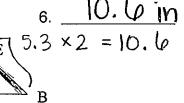
5.

Give the coordinates of the midpoint of the segment joining
$$(-6, -4)$$
 and $(3, 5)$.

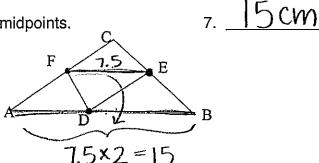
$$\frac{-10+3}{2} = \frac{-3}{2} = -1.5$$

$$2 = \frac{1}{2} = 0.5$$

In $\triangle ABC$ below, D, E, and F are midpoints. 6. If FD = 5.3 inches, find CB.



In $\triangle ABC$ below, D, E, and F are midpoints. 7. If FE = 7.5 cm, find BA.



- Find the distance between X = (8, 4) and Y = (12, -3). 8. 8. $d = \sqrt{(12-8)^2 + (-3-4)^2}$
- Find the distance between A = (3, -1) and B = (-2, -3).

 9. 5.399.

- 10.

 - Find the radius. b.
- Consider the circle with equation $(x+3)^2 + (y-4)^2 = 16$.

 a. Find the center.

 (X-1)^2 + (y-1)^2 = 16.

 (X-1)^2 + (y-1)^2 = 10

 (Enter (h, K)
- Write an equation to the circle with center (2, -4) and radius 6. 11.

$$(x-2)^{2} + (y--4)^{2} = (\rho^{2})^{2}$$

$$(x-2)^{2} + (y+4)^{2} = 3(\rho)^{2}$$

Write an equation to the circle with center (0, 0) and radius 11. 12.

$$(x-0)^{2} + (y-0)^{2} = ||^{2}$$

$$x^{2} + y^{2} = |2|$$