Name: _____ Date: _____ Hour: _____

# Unit J Exam Review

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

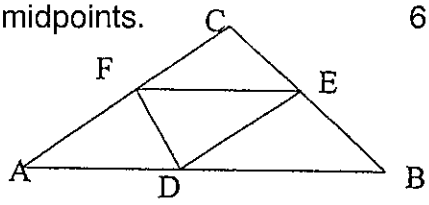
2. If a line has slope 2, each line perpendicular to it has slope _____ and each line parallel to it has slope _____.

3. Line $j$ has equation $-6x + 7y = 13$. If line $k$ is perpendicular to $j$, what is the slope of $k$? 3. _____

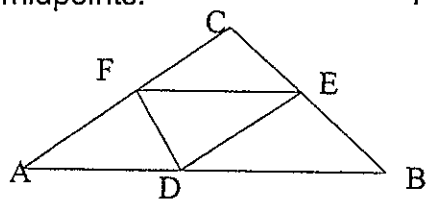
4. Give the coordinates of the midpoint of the segment joining (2, 3) and (4, -2). 4. _____

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

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




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



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8. Find the distance between $X = (8, 4)$ and $Y = (12, -3)$. 8. _____

9. Find the distance between $A = (3, -1)$ and $B = (-2, -3)$. 9. _____

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

a. Find the center. 10a. _____

b. Find the radius. b. _____

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

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