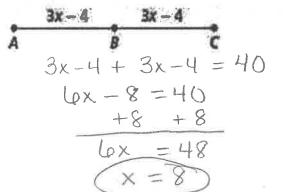
Review Unit 1 Test

Study both quizzes.

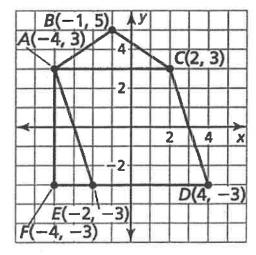
- Definitions
- Name planes
- Name rays
- Name opposite rays
- Name angles
- Use Segment Addition Postulate
- Midpoint to find measures
- Bisector to find measures
- Midpoint formula
- Distance formula to find perimeter
- Constructions
- Parallel and Perpendicular lines
- Writing equations of parallel and perpendicular lines
- · Identifying parallel and perpendicular slopes

Problems to practice:

1. If AC = 40, then find the value of x and then find AB & BC.



2. Find the perimeter of ΔAFE



$$AB = 3(8) - 4$$
 $BC = (20)$
= $24 - 4$
= (20)

$$= 7 \quad AE = \sqrt{(-4+2)^2 + (3+3)^2}$$

$$= 3 \quad = \sqrt{(-2)^2 + (6)^2}$$

$$= \sqrt{4+3} \cdot 6 = \sqrt{40}$$

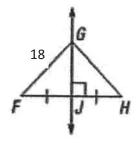
$$= 6.3246$$

$$+7$$

$$+2$$

$$15.3246$$

3. Find HG.



m=4

4. Write the equation of a line passing through (-3, 8) and is perpendicular to x + 4y = 10.

$$y-y_1 = m(x-x_1)$$

 $y-8 = 4(x-+3)$

$$\frac{44 = -1x + 10}{4}$$

$$4 = -\frac{1}{4}x + \frac{10}{4}$$

5. Two students were paired up working on determining which lines were parallel, perpendicular, or neither. Here are the two equations.

$$y = 3x - 4$$
 and $x + 3y = 6$.

Janus worked out the two equations and found them to be perpendicular, and Karen determines them to be neither. Who is correct? Support your answer by showing your work.

$$M = 3$$

$$-x$$

$$M = -\frac{1}{3}$$

$$\frac{3y = -1x + 6}{3}$$