

**Geometry (HW)**

**Unit One B – Post-Proof #3 Assessment Practice (HW31)**

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

1. Reminder: The formula for slope is  $m = \frac{y_2 - y_1}{x_2 - x_1}$ .

Find the slope of the line between:

a. (3, 6) and (4, 8)

c. (5, 5) and (-2, 5)

b. (-2, 3) and (1, -1)

d. (-3, 6) and (-3, 2)

2. In  $\triangle PQR$ ,  $m\angle P = (3x - 5)^\circ$ ,  $m\angle Q = (7x - 2)^\circ$ , and  $m\angle R = (5x + 7)^\circ$ . Find the indicated measures.

$x$  \_\_\_\_\_  $m\angle P$  \_\_\_\_\_

$m\angle Q$  \_\_\_\_\_  $m\angle R$  \_\_\_\_\_

3a. Factor:  $x^2 + x - 20$

b. Solve:  $x^2 - 7x + 12 = 0$

4. Using the diagram to the right, what are the coordinates of the image vertices after:

a. A reflection over the line  $x = -1$

b. A rotation  $90^\circ$  clockwise around  $(0, 0)$

