

Name \_\_\_\_\_

DUE DATE: Quiz on 11/20 B or 11/21A

GEOMRCC Regents Review 1

**Directions** ✨ There will be a 2 question quiz on these questions on the last day of class in each week. Dates are posted above!!! PRACTICE THESE and CHECK YOUR ANSWERS! You ✨ have exactly 10 minutes to complete the quiz.

1) What is the slope of a line which passes through the points (4, -7) and (-2, 5) in simplest form?

2) What is the slope of the line which is perpendicular to the line  $2x - 5y = 10$ ?

3) Using point-slope form, write the equation of the line which is parallel to the line  $y = -4x + 6$  and passes through the point (-3, 7).

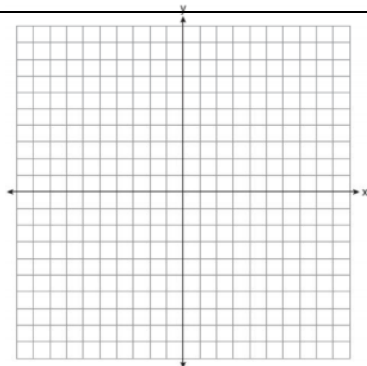
4) Perform the following rigid motions using (3, -5) as the pre-image.

a)  $R_{0,90^\circ} =$  \_\_\_\_\_ b)  $R_{0,180^\circ} =$  \_\_\_\_\_ c)  $R_{0,270^\circ} =$  \_\_\_\_\_

d)  $T_{-2,4} =$  \_\_\_\_\_ e)  $r_{y=x} =$  \_\_\_\_\_ f)  $r_{y=-x} =$  \_\_\_\_\_

Scrap graph on the second page!

5) The vertices of  $\triangle RST$  are  $R(-6,5)$ ,  $S(-7,-2)$ , and  $T(1,4)$ . The image of  $\triangle RST$  after the composition  $T_{-2,3} \circ r_{y=x}$  is  $\triangle R''S''T''$ . State the coordinates of  $\triangle R''S''T''$ . [The use of the set of axes below is optional.]



Answers: 1) -2                      2)  $-\frac{5}{2}$                       3)  $y - 7 = -4(x + 3)$

4) a) (5,3) b) (-3,5) c) (-5,-3) d) (1,-1) e) (-5,3) f) (5,-3)                      5)  $R''(3,-3)$   $S''(-4,-4)$   $T''(2,4)$

