Name:

Constructed Response – Group 2 – 11/10/14

Find a word problem below. In order to receive full credit for this assignment, **you must not only show your math work, but you must explain in writing how you solved the problem.**

The transformation of *R* is a 90˚ counter-clockwise rotation about the origin. The transformation *T* is a translation of 2 units in the *x*-direction and -3 units in the *y*-direction.

1. i. Draw and label ∆*ABC* with vertices *A* (3, 2), *B* (1, 3), and *C* (1, 0) on a coordinate plane
2. Draw and label as ∆*A*2*B2C*2, the image of ∆*ABC* under *TR*.
3. The image of the point *D* under *TR* is (4, -2). Find the coordinates of *D*.