Chapter 4 homework

**Homework Question 1 from book**

4.1 #2 now note that the reflection is called T in the problem statement and F in part b. Just roll with it and use the reflection about the origin transformation given.

Add part e. WHY can this be thought of as a rotation about the origin.

Note too: the illustration for it is top of the next page!

**Ms. Leigh’s Question One**

You are given a segment from (1,1) to (1,4) and you do a translation to a segment (3,5) to (3,8). Put this on a grid and mark off two lines of reflection of your own choosing. Be sure to show the path of the translation as well as the lines of symmetry. Then write a brief paragraph about how this motion can be written as F(x + 2, y + 4). Connect back to learning this movement in Chapter 3 and now having an alternate presentation and a name here in Chapter 4

**Ms. Leigh’s Question Two**

Take an object and rotate it 60 degrees about a point of your choosing. Show the interim object, the lines of reflection and the center of the rotation in your sketch.

**Ms. Leigh Question 3**

Make up a personal rigid motion in the plane by combining at least 2 of the classic ones we’ve studied: reflection, translation, rotation, and glide reflection. Be sure to use something asymmetrical as your initial object.