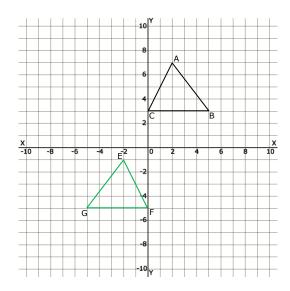
## **Rigid Motions and Congruent Triangles - Step-by-Step Lesson**

Use the definition of congruence in terms of rigid motions to determine whether the two figures are congruent and explain your answer.

You can map  $\Delta$  ABC to  $\Delta$  EFG by a translation followed by a reflection. Provide the coordinate notation for each.



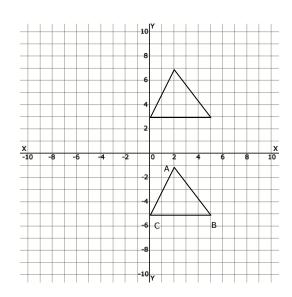
Step 1) Translation Notation:

All points move down

8 units or y = -8

Notation would be

T(0, -8)



Date \_\_\_\_\_

## Step 2)

"Provide the coordinate notation for each."

Step 2) Reflection in y-axis:

Notation would be:

$$(x, y) \rightarrow (-x, y)$$

