

# Showing Triangles Congruent Using Rigid Motion

Name \_\_\_\_\_ Date \_\_\_\_\_

Given  $\triangle ABC$  with vertices  $A (-4, -3)$ ,  $B (0, 0)$ ,  $C (2, -3)$  and  $\triangle DEF$  with vertices  $D (3, 1)$ ,  $E (6, -3)$ ,  $F (3, -5)$ , use the definition of congruence in terms of rigid motion to show that  $\triangle ABC \cong \triangle DEF$ . Describe each rigid motion in terms of coordinates  $(x, y)$ .

