

# Challenge Problems

## 11.1

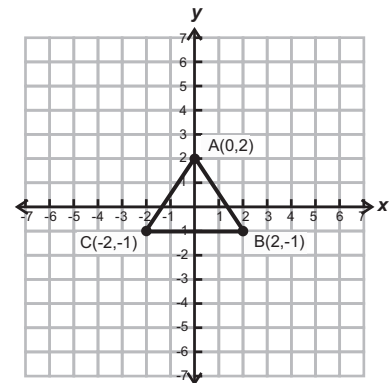
NAME \_\_\_\_\_

Module 11 Transformation of Shapes  
Lesson 1 Translations and Reflections

### Set 1

1 Point  $A$  is translated using the motion rule  $(x, y) \rightarrow (x + 3, y - 4)$ . The coordinates of  $A'$  are  $(2, -1)$ . What are the coordinates of  $A$ ?

2 Reflect  $\triangle ABC$  across the  $y$ -axis.  
Give the coordinates of  $A'$ ,  $B'$ , and  $C'$ .



3 Reflect  $\triangle ABC$  across the  $x$ -axis.  
Give the coordinates of  $A'$ ,  $B'$ , and  $C'$ .

# Additional Work Area