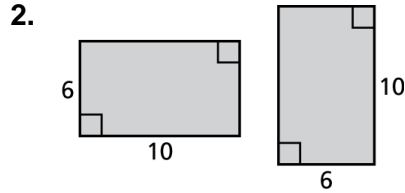
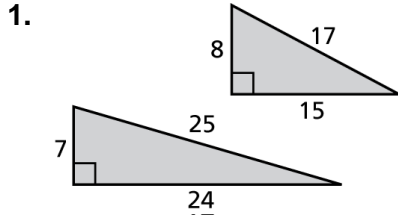
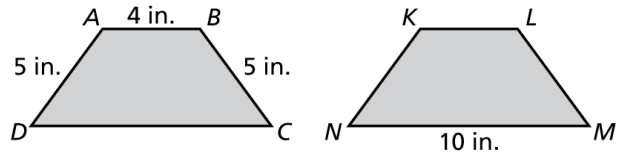


2.1 Practice

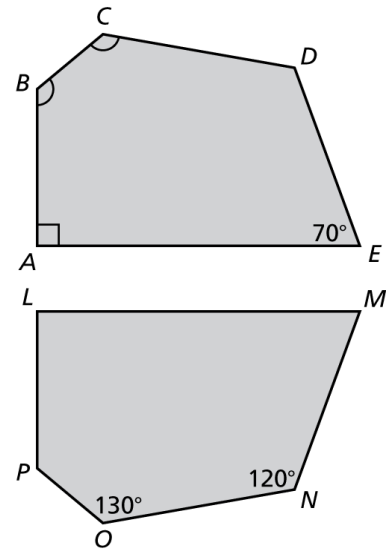
Tell whether the two figures are congruent. Explain your reasoning.



3. The figures are congruent.
- What is the length of side CD ?
 - Which angle of $KLMN$ corresponds to $\angle B$?
 - What is the perimeter of $ABCD$?

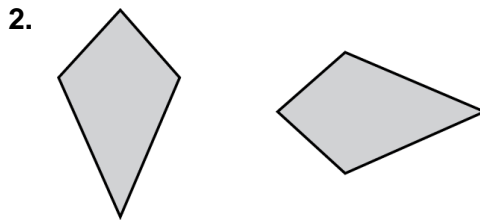
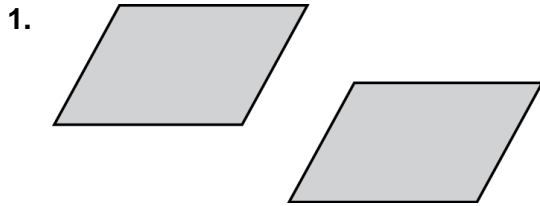


4. The pentagons are congruent. Determine whether the statement is *true* or *false*. Explain your reasoning.
- $\angle B$ is congruent to $\angle C$.
 - Side MN is congruent to side AE .
 - $\angle B$ corresponds to $\angle O$.
 - Side BC is congruent to side PO .
 - The sum of the angle measures of $LMNOP$ is 540° .

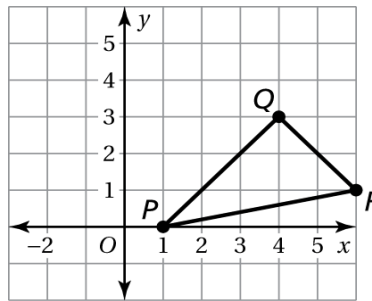


2.2 Practice

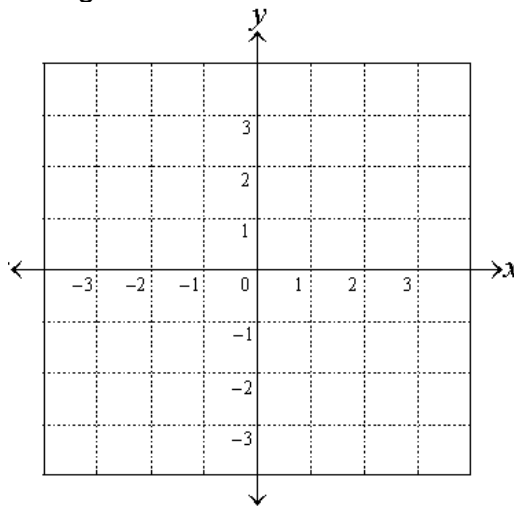
Tell whether the right figure is a translation of the left figure.



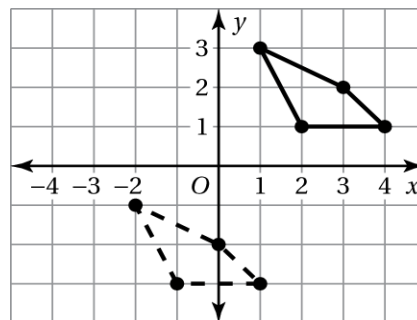
3. Translate the triangle 3 units left and 2 units up. What are the coordinates of the image?



4. The vertices of a triangle are $A(-2, 0)$, $B(0, 3)$, and $C(2, 2)$. Draw the figure and its image after the translation 2 units right and 1 unit up.



5. Describe the translation from the solid line figure to the dashed line figure.

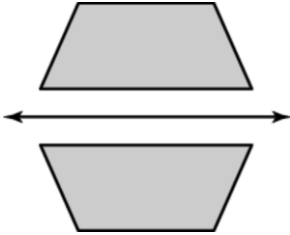


2.3

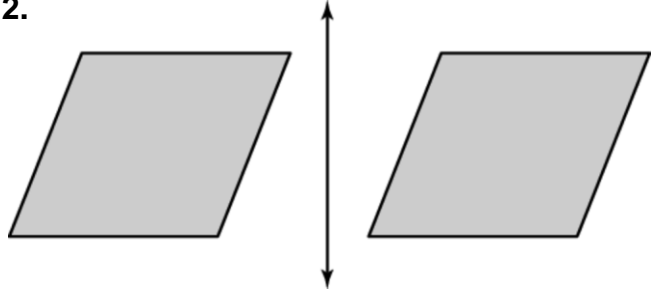
Practice

Tell whether one figure is a reflection of the other figure.

1.



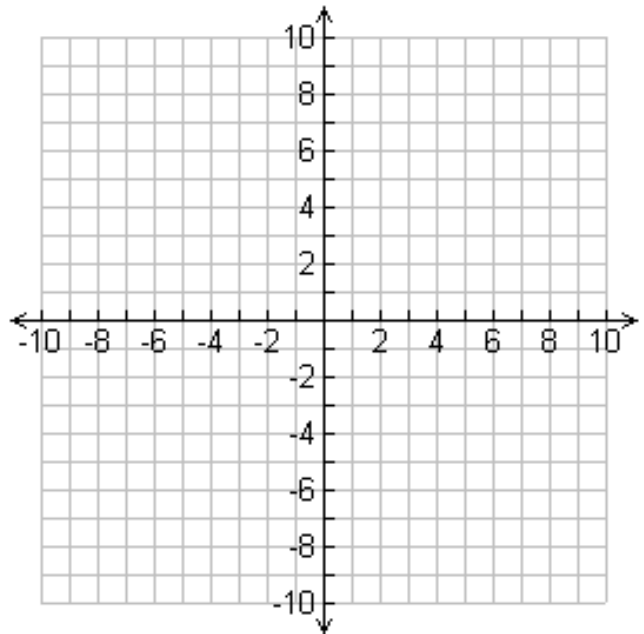
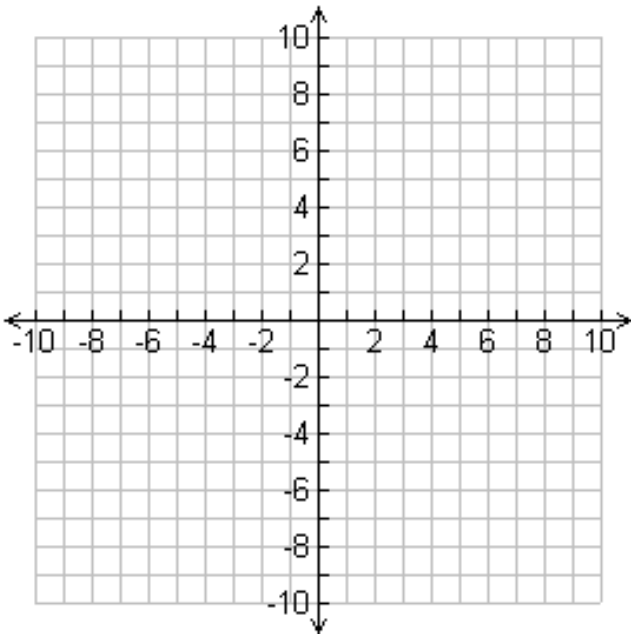
2.



Draw the figure and its reflection in the x -axis. Identify the coordinates of the image.

3. $E(0, 2), F(3, 1), G(4, 3)$

4. $H(-3, 2), I(-1, 5), J(2, 1)$

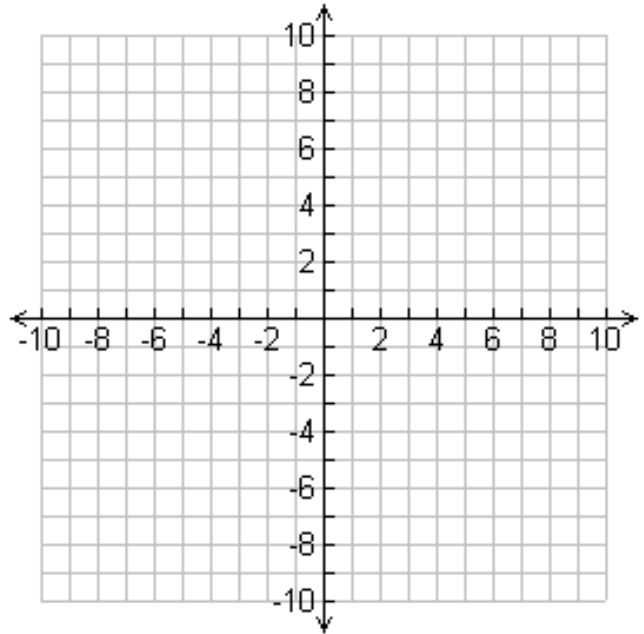
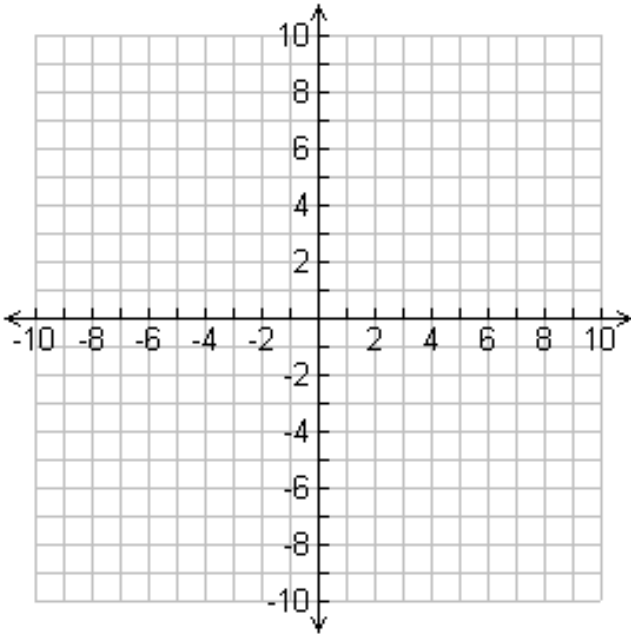


Practice 2.3 Continued ...

Draw the figure and its reflection in the y -axis. Identify the coordinates of the image.

5. $X(0, -1), Y(2, 3), Z(4, -2)$

6. $U(-5, 1), V(-4, -2), W(-2, 0)$



7. What does the word MOM spell when it is reflected in a horizontal line?

The coordinates of a point and its image are given. Is the reflection in the x -axis or y -axis?

8. $(-5, 2) \rightarrow (5, 2)$

9. $(4, 3) \rightarrow (4, -3)$

10. Translate the triangle 2 units left and 1 unit up. Then reflect the image in the x -axis. Graph the resulting triangle.

