Write

Explain what a conjecture is and how it is used in math.

Remember

If two figures are congruent, all corresponding sides and all corresponding angles have the same measure.

Practice

Visit **livehint.com/texas** or use this QR code if you need a hint on the Practice questions.

1. Determine which figures are congruent to Figure *A*. Follow the steps given as you investigate each shape.
- Make a conjecture about which figures are congruent to Figure *A*.
- Use patty paper to investigate your conjecture.
- Justify your conjecture by stating how you can move from Figure *A* to each congruent figure by sliding, flipping, or spinning Figure *A*.
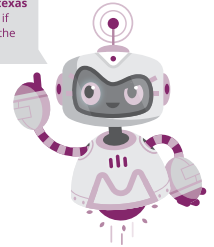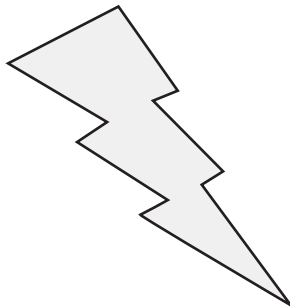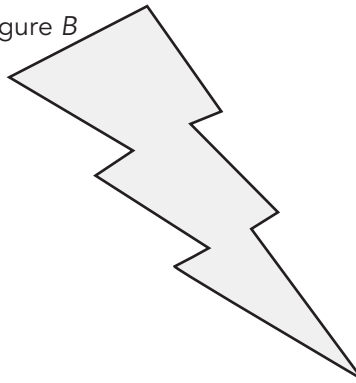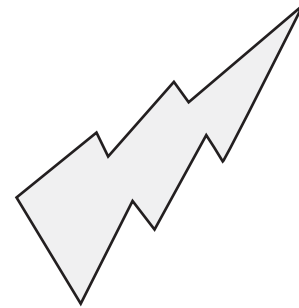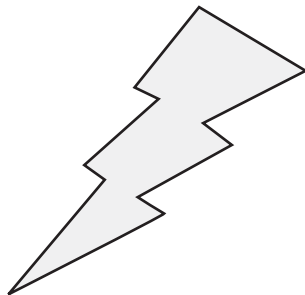
Figure *A*
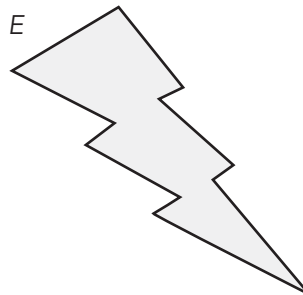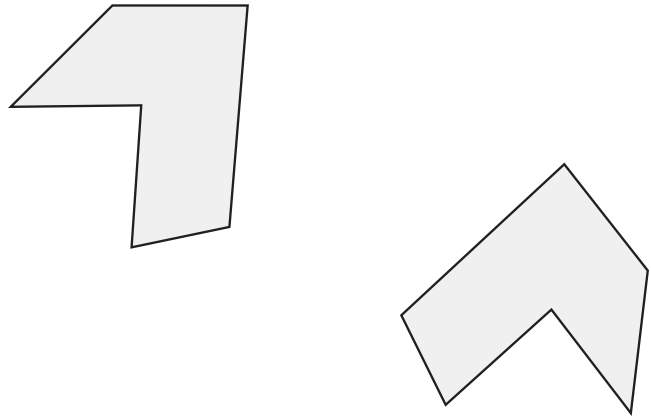
Figure *B*

Figure *C*

Figure *D*

Figure *E*

Figure *F*

Stretch

The figure on the left was reflected, or flipped, over a *line of reflection* to create the figure on the right. Determine the location of the line of reflection.
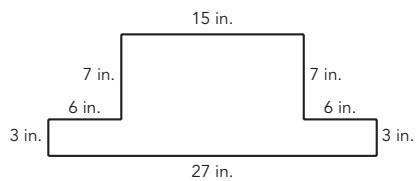
Review

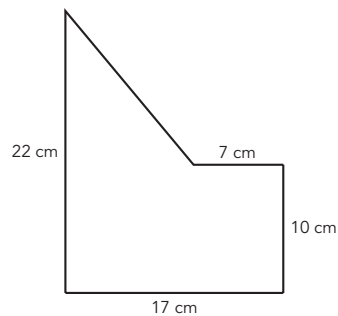1. Determine each sum or difference.

   a. $-14 + 25$

   b. $-14 - 25$

2. Calculate the area of each figure.

   a.

   15 in.

   7 in.   7 in.
   6 in.   6 in.
   3 in.   3 in.

   27 in.

   b.

   22 cm
   7 cm
   10 cm
   17 cm

3. Write the ordered pair for each point plotted on the coordinate plane.