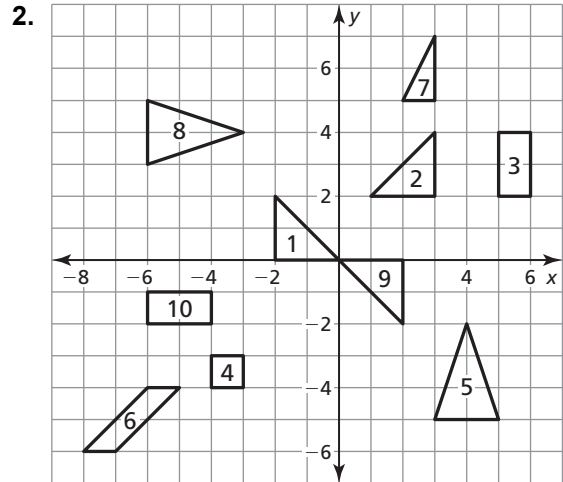
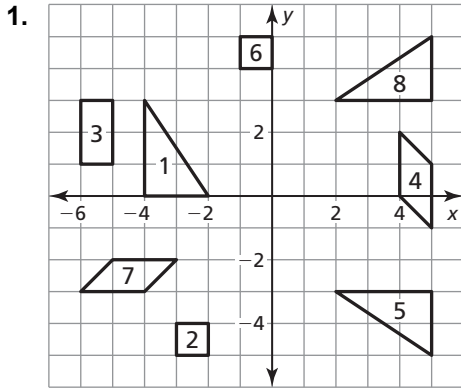


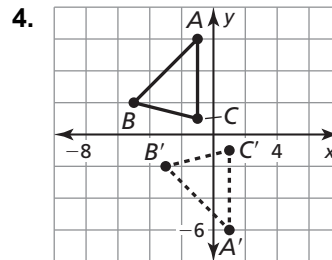
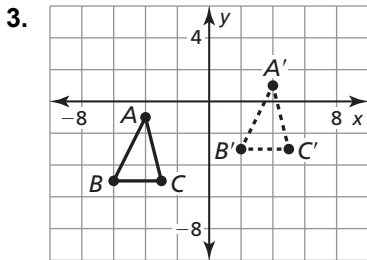
11.4

Practice A

In Exercises 1 and 2, identify any congruent figures in the coordinate plane. Explain.

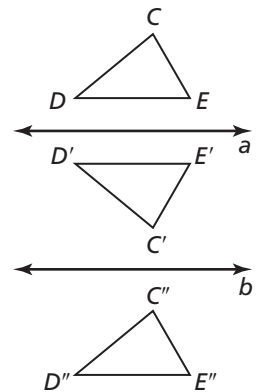


In Exercises 3 and 4, describe a congruence transformation that maps $\triangle ABC$ to $\triangle A'B'C'$.



In Exercises 5 and 6, determine whether the polygons with the given vertices are congruent. Use transformations to explain your reasoning.

5. $A(5, 2), B(2, 2), C(2, 7)$ and $S(-4, -5), T(-1, -5), U(-1, 0)$
6. $E(6, -2), F(10, -2), G(10, -8), H(6, -8)$ and $W(4, 8), X(4, 10), Y(8, 10), Z(8, 8)$
7. In the figure, $a \parallel b$, $\triangle CDE$ is reflected in line a , and $\triangle C'D'E'$ is reflected in line b . List three pairs of segments that are parallel to each other. Then determine whether any segments are congruent to $\overline{EE''}$.



In Exercises 8 and 9, find the measure of the acute or right angle formed by intersecting lines so that P can be mapped to P'' using two reflections.

8. A rotation of 28° maps P to P'' .
9. The rotation $(x, y) \rightarrow (-y, x)$ maps P to P'' .