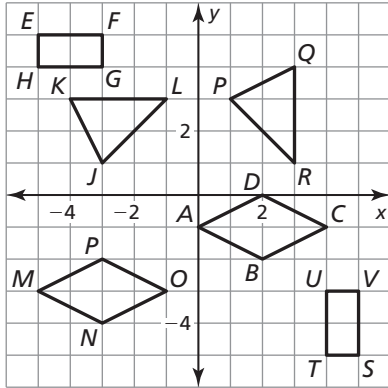


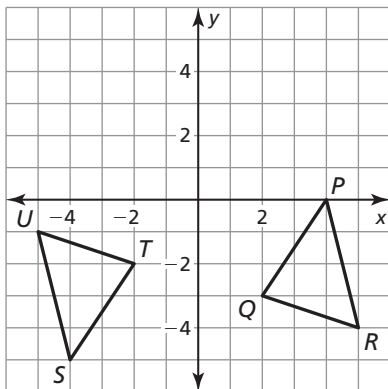
4.4 Notetaking with Vocabulary (continued)

Extra Practice

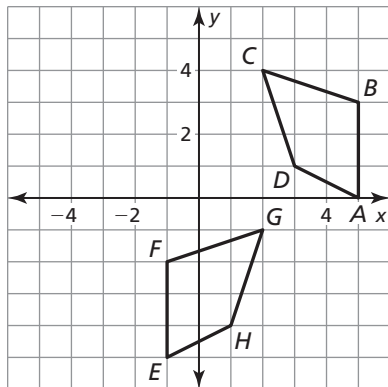
1. Identify any congruent figures in the coordinate plane. Explain.



2. Describe a congruence transformation that maps $\triangle PQR$ to $\triangle STU$.



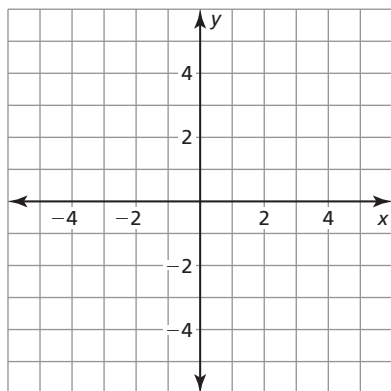
3. Describe a congruence transformation that maps polygon $ABCD$ to polygon $EFGH$.



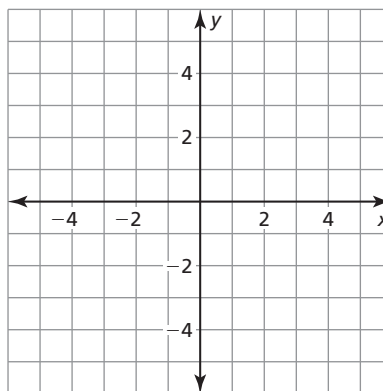
4.4 Notetaking with Vocabulary (continued)

In Exercises 4 and 5, determine whether the polygons with the given vertices are congruent. Use transformations to explain your reasoning.

4. $A(2, 2), B(3, 1), C(1, 1)$ and
 $D(2, -2), E(3, -1), F(1, -1)$



5. $G(3, 3), H(2, 1), I(6, 2), J(6, 3)$ and
 $K(-2, -1), L(-3, -3), M(2, -2), N(2, -1)$



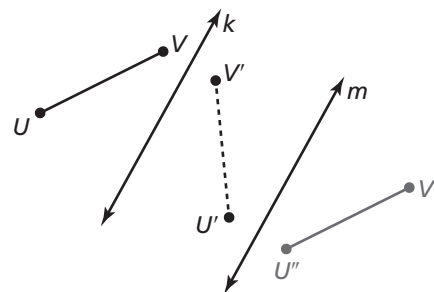
In Exercises 6–9, $k \parallel m$, \overline{UV} is reflected in line k , and $\overline{U'V'}$ is reflected in line m .

6. A translation maps \overline{UV} onto which segment?

7. Which lines are perpendicular to $\overline{UU''}$?

8. Why is V'' the image of V ? Explain your reasoning.

9. If the distance between k and m is 5 inches, what is the length of $\overline{VV''}$?



10. What is the angle of rotation that maps A onto A'' ?

