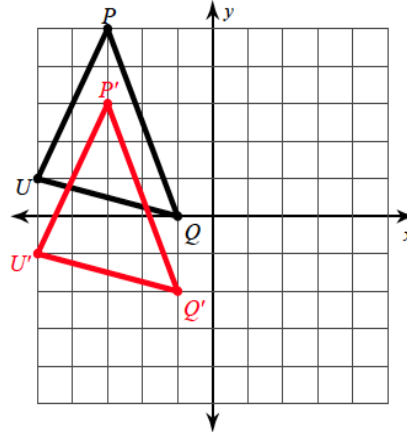
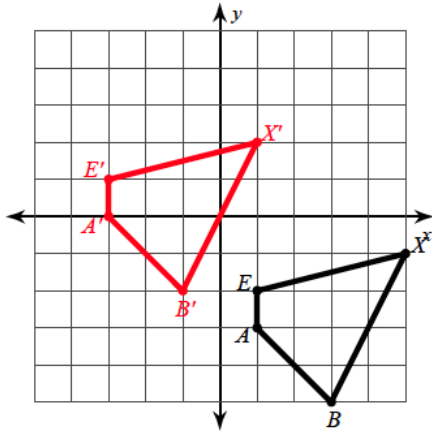


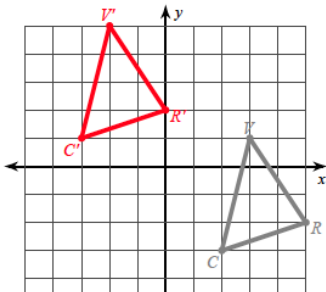
## Practice 8.1 Answers

- 1) translation:  $(x, y) \rightarrow (x - 4, y + 3)$     2) translation:  $(x, y) \rightarrow (x, y - 2)$

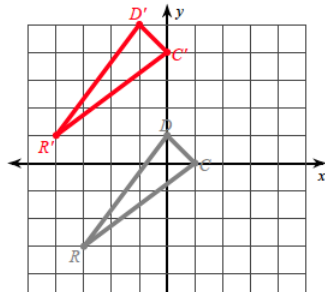


3.  $A'(2, -2), S'(1, 1), E'(3, -2)$   
 4.  $D'(-5, 1), J'(-1, 4), H'(-2, 0)$   
 5.  $U'(4, 0), P'(3, 4), S'(5, 4)$   
 6.  $C'(0, -5), W'(3, -4), N'(5, -5)$

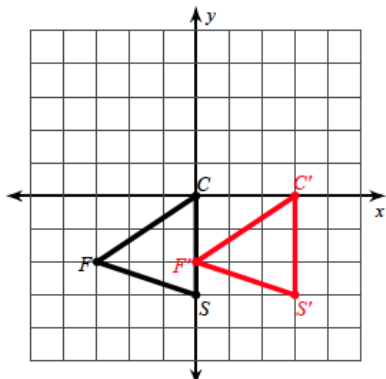
- 7) translation:  $(x, y) \rightarrow (x - 5, y + 4)$   
 $C(2, -3), V(3, 1), R(5, -2)$



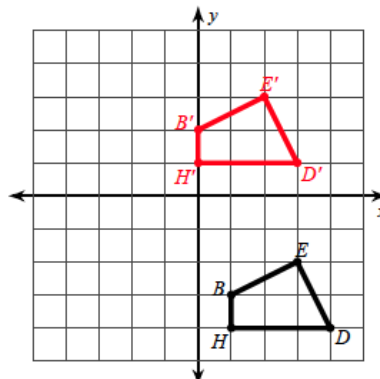
- 8) translation:  $(x, y) \rightarrow (x - 1, y + 4)$   
 $R(-3, -3), D(0, 1), C(1, 0)$



- 9) translation:  $(x, y) \rightarrow (x + 3, y)$



- 10) translation:  $(x, y) \rightarrow (x - 1, y + 5)$



11.  $A'(-4, -5), P'(0, -2), S'(1, -4)$   
 12.  $U'(0, -4), T'(0, -2), B'(4, 0), G'(3, -5)$   
 13.  $H'(-4, 3), W'(-3, 4), E'(-1, -1), Y'(-2, -1)$   
 14.  $M'(2, 1), Z'(2, 2), E'(5, 2), K'(5, 0)$   
 15. translation:  $(x, y) \rightarrow (x - 3, y + 4)$   
 17. translation:  $(x, y) \rightarrow (x + 3, y + 1)$

16. translation:  $(x, y) \rightarrow (x + 4, y)$   
 18. translation:  $(x, y) \rightarrow (x + 3, y + 1)$