Coordinate Algebra   Name_____

Reflections Practice   Date_____ Period____
Find the coordinates of the vertices of each figure after the given transformation.
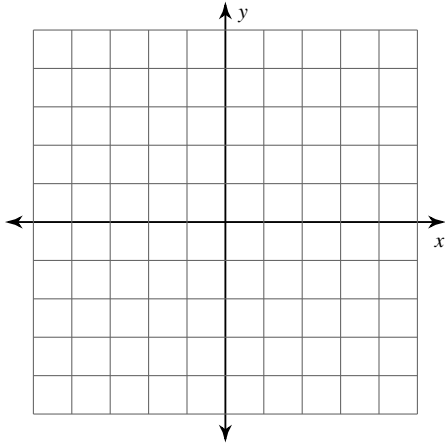
1) reflection across the x-axis
   $F(-5, -3)$, $R(-3, 0)$, $N(0, -1)$

2) reflection across the x-axis
   $B(-2, 1)$, $S(-2, 2)$, $R(3, 3)$, $J(2, -2)$

3) reflection across the x-axis
   $M(0, -1)$, $S(3, 2)$, $Q(5, -3)$

4) reflection across the y-axis
   $V(3, -5)$, $E(1, -2)$, $F(3, 0)$, $M(5, -2)$

5) reflection across the y-axis
   $B(1, 3)$, $H(4, 4)$, $D(4, -1)$

6) reflection across the x-axis
   $X(1, 0)$, $K(4, 1)$, $T(5, -3)$

7) reflection across the y-axis
   $R(-1, 0)$, $L(-1, 1)$, $X(3, -1)$, $D(1, -3)$

8) reflection across the x-axis
   $W(0, 2)$, $F(1, 5)$, $E(4, 3)$, $R(3, 0)$

9) reflection across the x-axis
   $U(4, 2)$, $V(2, 4)$, $I(3, 5)$, $N(5, 4)$

10) reflection across the y-axis
    $J(-1, -3)$, $A(-1, -1)$, $P(0, 0)$, $H(3, -2)$

11) reflection across the y-axis
    $I(-2, -5)$, $U(-3, 0)$, $D(-1, 1)$, $K(-1, -4)$

12) reflection across the y-axis
    $P(0, 1)$, $N(1, 3)$, $T(3, 1)$, $W(1, 0)$

13) reflection across the y-axis
    $B(3, -4)$, $X(2, -1)$, $M(5, 1)$

14) reflection across the y-axis
    $Y(-5, -5)$, $L(-5, -4)$, $V(-3, -1)$, $F(-3, -3)$

15) reflection across the x-axis
    $X(-4, 2)$, $J(-4, 4)$, $E(-1, 3)$, $Z(1, 0)$

16) reflection across the y-axis
    $T(-3, -4)$, $U(1, -1)$, $J(0, -5)$

17) reflection across the y-axis
    $M(-3, -5)$, $Z(-3, -3)$, $I(-2, -5)$

18) reflection across the y-axis
    $K(-4, 1)$, $F(-5, 5)$, $H(-2, 5)$, $N(-2, 3)$

19) reflection across the y-axis
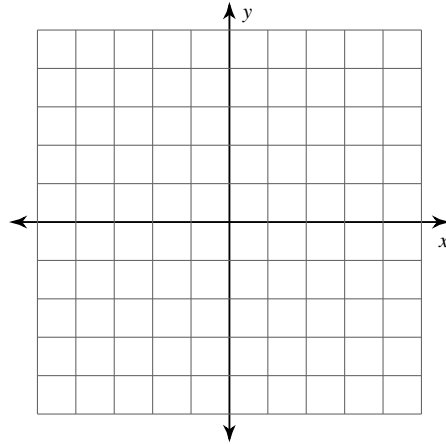 $H(-3, 2), X(-3, 4), E(2, 2)$

20) reflection across the x-axis
   $U(-4, -2), X(-2, 1), Z(1, 1), K(0, -4)$

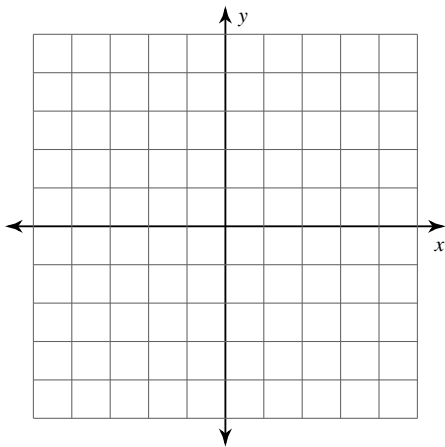**Graph the image of the figure using the transformation given.**

21) reflection across the y-axis
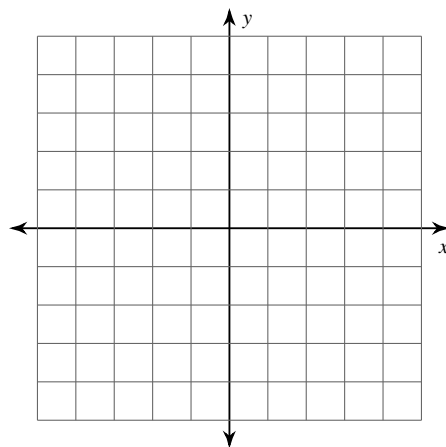 $D(1, 0), T(0, 3), C(1, 3), B(4, -1)$

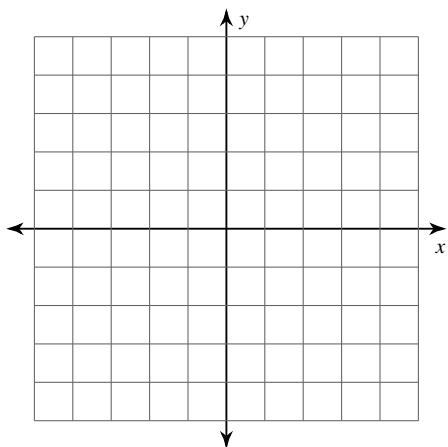22) reflection across the x-axis
   $P(-4, -3), D(-4, -1), V(0, -2)$

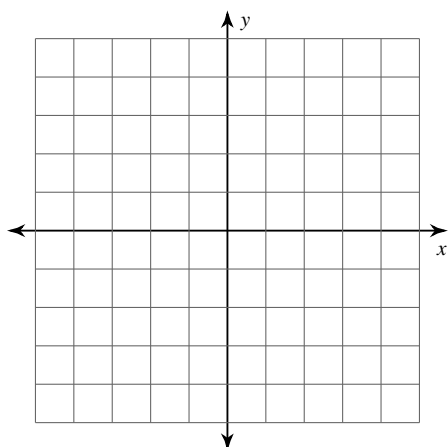23) reflection across the y-axis
   $F(-5, 1), X(-3, 3), E(-1, -1)$

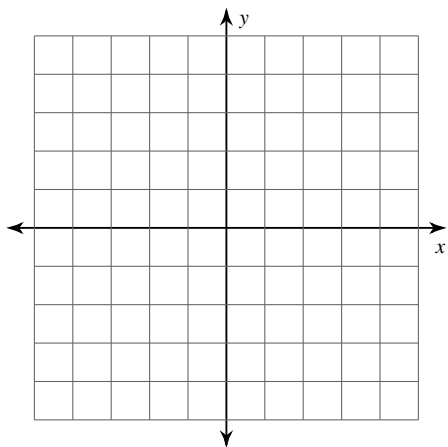24) reflection across $x = -2$
   $S(-3, 0), V(0, 4), M(0, 1)$

25) reflection across the y-axis

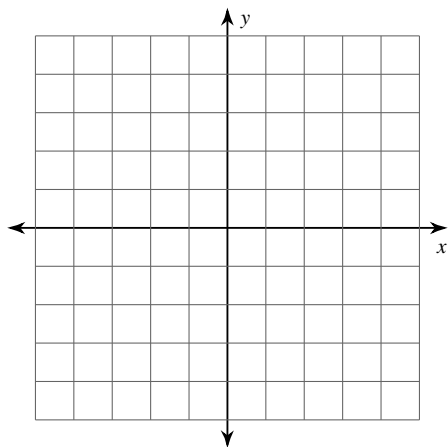$V(-3, -3)$, $Y(-4, -1)$, $W(-2, -1)$, $S(-1, -2)$

26) reflection across $y = -1$

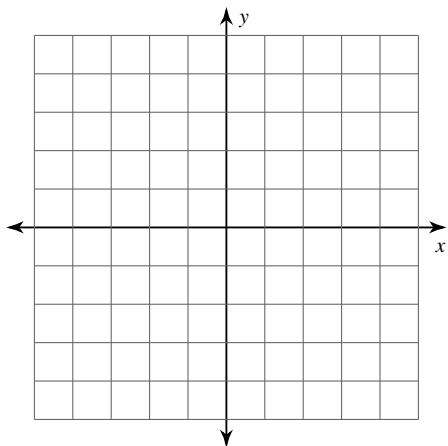$T(2, -3)$, $Z(3, -2)$, $M(5, -4)$, $D(5, -5)$

27) reflection across the x-axis

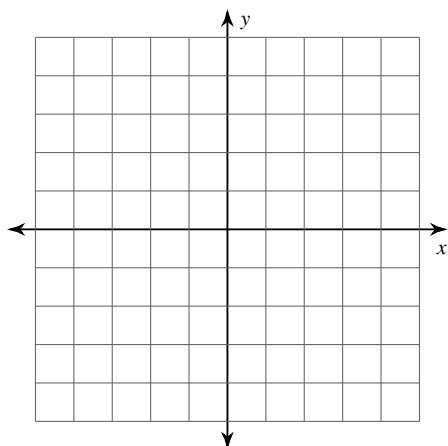$L(2, -5)$, $B(1, -1)$, $R(4, 0)$, $C(5, -2)$

28) reflection across the y-axis

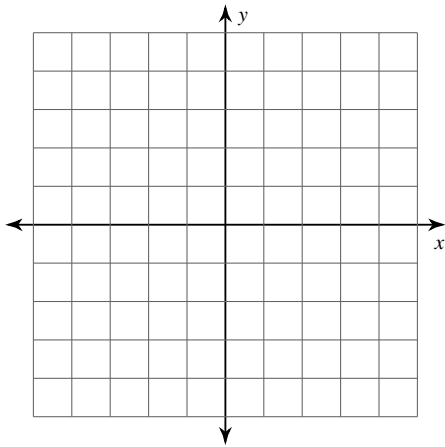$U(-2, -3)$, $M(-2, 2)$, $Z(3, 3)$, $Y(3, -1)$

29) reflection across the y-axis

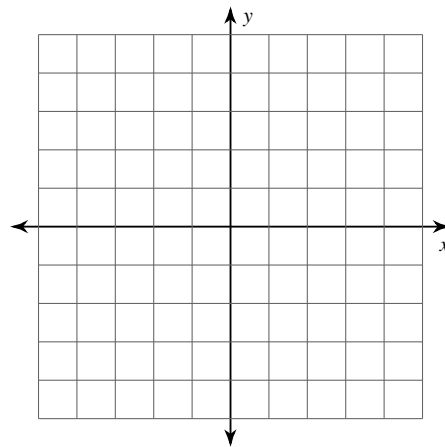$A(-5, 0)$, $L(-4, 4)$, $J(-1, 2)$

30) reflection across $y = -1$
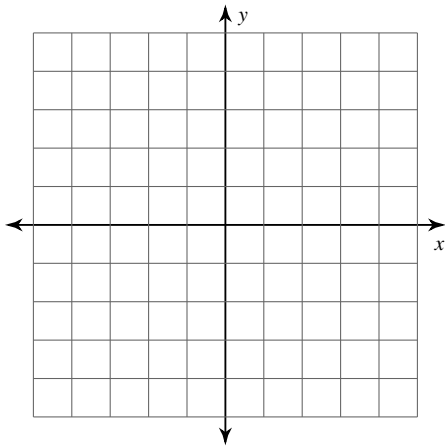
$S(1, -5)$, $N(1, -2)$, $V(4, -2)$, $A(2, -5)$

31) reflection across the y-axis
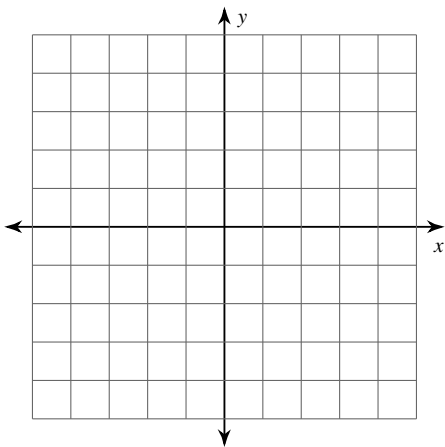 $H(-3, -4), R(-3, 1), M(-1, 2), A(2, -2)$

32) reflection across $y = -1$
   $U(-5, -4), Z(-2, -2), K(0, -4)$
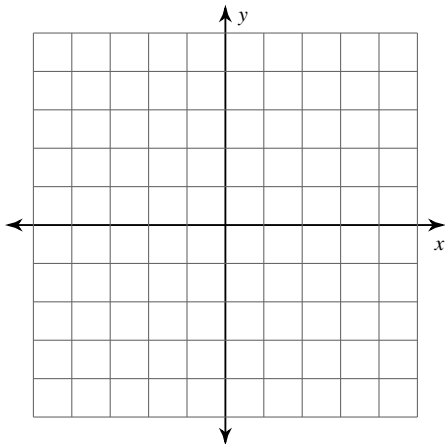
33) reflection across the x-axis
   $G(-3, 0), Z(-2, 5), C(-1, 2)$

34) reflection across $x = 1$
   $F(-2, -5), H(-3, -1), Q(1, -2)$

35) reflection across the y-axis
   $A(-4, -1), K(-5, 2), I(-4, 3), Q(-1, 3)$

36) reflection across $y = 1$
   $N(-4, 4), K(-3, 5), M(-3, 4), E(-4, 3)$