

**Write the New Coordinates**

Sheet 2

Write the coordinates obtained after the given transformation.

1)  $K(-3, -6), L(-8, -6), M(-8, -8), N(-3, -8)$

 $90^\circ$  clockwise rotation about the origin

$K':$  \_\_\_\_\_ ,  $L':$  \_\_\_\_\_

$M':$  \_\_\_\_\_ ,  $N':$  \_\_\_\_\_

2)  $U(-2, -3), V(1, -3), W(-2, 0)$

Reflection across the line  $x = -3$ 

$U':$  \_\_\_\_\_ ,  $V':$  \_\_\_\_\_

$W':$  \_\_\_\_\_

3)  $D(-4, 2), E(-4, 4), F(-4, 6)$

Translate 1 unit right

$D':$  \_\_\_\_\_ ,

$F':$  \_\_\_\_\_ ,

5)  $P(5, -5), Q(2, -4), R(5, -2)$

Reflection across the line  $x = 0$ 

$P':$  \_\_\_\_\_ ,

$R':$  \_\_\_\_\_ ,

7)  $B(3, 3), C(5, 7), D(3, 9), E(1, 7)$

 $90^\circ$  counterclockwise rotation about the origin

$B':$  \_\_\_\_\_ ,  $C':$  \_\_\_\_\_

$D':$  \_\_\_\_\_ ,  $E':$  \_\_\_\_\_

8)  $J(-7, 10), K(-8, 7), L(-3, 7), M(-2, 10)$

Reflection across the line  $y = 4$ 

$J':$  \_\_\_\_\_ ,  $K':$  \_\_\_\_\_

$L':$  \_\_\_\_\_ ,  $M':$  \_\_\_\_\_

$S(7, 5), T(7, 8)$

Reflection about the origin

$R':$  \_\_\_\_\_

$T':$  \_\_\_\_\_

$U(7, 5), V(7, 8), W(7, 10)$

Translate 3 units right and 3 units up

$B':$  \_\_\_\_\_

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**Answer key****Write the New Coordinates**

Sheet 2

Write the coordinates obtained after the given transformation.

1)  $K(-3, -6), L(-8, -6), M(-8, -8), N(-3, -8)$

90° clockwise rotation about the origin

$K': (-6, 3), L': (-6, 8)$

$M': (-8, 8), N': (-8, 3)$

2)  $U(-2, -3), V(1, -3), W(-2, 0)$

Reflection across the line  $x = -3$ 

$U': (-4, -3), V': (-7, -3)$

$W': (-4, 0)$

3)  $D(-4, 2), E(-4, 4), F(-4, 6)$

Translate 1 unit right

$D': (-3, 2), E': (-3, 4), F': (-3, 6)$

$F': (-6, -3)$

5)  $P(5, -5), Q(2, -4), R(2, -1)$

Reflection across the y-axis

$P': (-5, -5), Q': (-2, -4), R': (-2, -1)$

$R': (-7, 3)$

7)  $B(3, 3), C(5, 7), D(3, 9), E(1, 7)$

90° counterclockwise rotation about the origin

$B': (-3, 3), C': (-7, 5), D': (-9, 3), E': (-7, 1)$

$E': (-7, 1)$

8)  $J(-7, 10), K(-8, 7), L(-3, 7), M(-2, 10)$

Reflection across the line  $y = 4$ 

$J': (-7, -2), K': (-8, 1), L': (-3, 1), M': (-2, -2)$

$M': (-2, -2)$

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$S(7, 5), T(7, 8)$

Reflection across the origin

$R': (-4, -5)$

$T': (-7, -8)$

$A(7, 5), B(2, -2)$

Translate 3 units right and 3 units up

$B': (10, -4)$