

## Write the New Coordinates

Sheet 3

Write the coordinates obtained after the given transformation.

1)  $U(7, 9), V(3, 9), W(5, 3)$

Reflection across the y-axis

$U' : \underline{\hspace{2cm}}, \quad V' : \underline{\hspace{2cm}}$

$W' : \underline{\hspace{2cm}}$

2)  $A(0, -6), B(4, -6), C(2, -2), D(-2, -2)$

Translate 2 units up and 5 units left

$A' : \underline{\hspace{2cm}}, \quad B' : \underline{\hspace{2cm}}$

$C' : \underline{\hspace{2cm}}, \quad D' : \underline{\hspace{2cm}}$

3)  $P(8, -3), Q(6, -3), R(4, -3)$

 $180^\circ$  rotation about the origin

$P' : \underline{\hspace{2cm}},$

$R' : \underline{\hspace{2cm}},$

5)  $D(2, 6), E(-3, 6), F(-8, 6)$

Translate 4 units right

$D' : \underline{\hspace{2cm}},$

$F' : \underline{\hspace{2cm}},$

7)  $Q(7, -7), R(8, -3), S(3, -4), T(1, -7)$

Reflection across the line  $y = -1$ 

$Q' : \underline{\hspace{2cm}}, \quad R' : \underline{\hspace{2cm}}$

$S' : \underline{\hspace{2cm}}, \quad T' : \underline{\hspace{2cm}}$

8)  $K(-4, 0), L(-8, 0), M(-9, -2), N(-3, -2)$

Translate 6 units down 5 units right

$K' : \underline{\hspace{2cm}}, \quad L' : \underline{\hspace{2cm}}$

$M' : \underline{\hspace{2cm}}, \quad N' : \underline{\hspace{2cm}}$

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6)  $J(5, 7), K(7, 2), L(5, 7), M(7, 2)$

Reflection across the line  $x = 5$ 

$K' : \underline{\hspace{2cm}}$

$M' : \underline{\hspace{2cm}}$

4)  $U(-8, 2), V(-6, 4), W(-4, 6)$

Counter-clockwise rotation about the origin

$T' : \underline{\hspace{2cm}}$

$V' : \underline{\hspace{2cm}}$

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

Sheet 3

Write the coordinates obtained after the given transformation.

1)  $U(7, 9), V(3, 9), W(5, 3)$

Reflection across the y-axis

$U' : \underline{(-7, 9)}, \quad V' : \underline{(-3, 9)}$

$W' : \underline{(-5, 3)}$

2)  $A(0, -6), B(4, -6), C(2, -2), D(-2, -2)$

Translate 2 units up and 5 units left

$A' : \underline{(-5, -4)}, \quad B' : \underline{(-1, -4)}$

$C' : \underline{(-3, 0)}, \quad D' : \underline{(-7, 0)}$

3)  $P(8, -3), Q(6, -3), R(5, 7)$

 $180^\circ$  rotation about the origin

$P' : \underline{(-8, 3)}, \quad Q' : \underline{(-6, 3)}$

$R' : \underline{(-5, 7)}$

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

Translate 4 units right

$D' : \underline{(1, 2)}, \quad E' : \underline{(1, 10)}$

$F' : \underline{(-3, -3)}$

6)  $J(5, 7), K(0, 5), L(5, 7), M(7, 2)$

Reflection across the line  $x = 5$ 

$K' : \underline{(0, 5)}, \quad L' : \underline{(10, 7)}$

$M' : \underline{(3, 2)}$

4)  $U(-8, 2), V(-6, 4), W(2, 6)$

Counter-clockwise rotation about the origin

$T' : \underline{(-4, -10)}, \quad U' : \underline{(-2, -2)}$

$V' : \underline{(-4, -6)}$

7)  $Q(7, -7), R(8, -3), S(3, -4), T(1, -7)$

Reflection across the line  $y = -1$ 

$Q' : \underline{(7, 5)}, \quad R' : \underline{(8, 1)}$

$S' : \underline{(3, 2)}, \quad T' : \underline{(1, 5)}$

8)  $K(-4, 0), L(-8, 0), M(-9, -2), N(-3, -2)$

Translate 6 units down 5 units right

$K' : \underline{(1, -6)}, \quad L' : \underline{(-3, -6)}$

$M' : \underline{(-4, -8)}, \quad N' : \underline{(2, -8)}$

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