

**Write the New Coordinates**

Sheet 3

Write the coordinates obtained after the rotation about the origin.

1)  $P(2, -8), Q(8, -8), R(8, -2), S(2, -2)$

180° rotation

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

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

2)  $A(-10, -6), B(6, -6), C(0, 6), D(-9, 6)$

90° clockwise rotation

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

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

3)  $U(-9, 1), V(2, 1), W(2, -1)$

90° counterclockwise rotation

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

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

5)  $R(-4, 0), S(7, -4), T(7, 0)$

90° clockwise rotation

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

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

7)  $E(-9, -8), F(-5, -8), G(-5, -6)$

180° rotation

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

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

8)  $T(-6, 9), U(-3, 0), V(10, 3)$

90° clockwise rotation

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

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

$G(3, 8), H(-2, 8)$

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

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

$L(4, 8), M(0, 2)$

90° clockwise rotation

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

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

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

Sheet 3

Write the coordinates obtained after the rotation about the origin.

1)  $P(2, -8), Q(8, -8), R(8, -2), S(2, -2)$

180° rotation

$P': \underline{(-2, 8)}, \quad Q': \underline{(-8, 8)}$

$R': \underline{(-8, 2)}, \quad S': \underline{(-2, 2)}$

2)  $A(-10, -6), B(6, -6), C(0, 6), D(-9, 6)$

90° clockwise rotation

$A': \underline{(-6, 10)}, \quad B': \underline{(-6, -6)}$

$C': \underline{(6, 0)}, \quad D': \underline{(6, 9)}$

3)  $U(-9, 1), V(2, 1), W(3, 8), H(-2, 8)$

90° counterclockwise rotation

$U': \underline{(-1, -9)}, \quad V': \underline{(1, -2)}$

$W': \underline{(-7, 0)}, \quad H': \underline{(2, -8)}$

5)  $R(-4, 0), S(7, -4), T(4, 8), M(0, 2)$

90° clockwise rotation

$R': \underline{(0, 4)}, \quad S': \underline{(4, 7)}$

$T': \underline{(5, -8)}, \quad M': \underline{(-2, 0)}$

7)  $E(-9, -8), F(-5, -8), G(-5, -6)$

180° rotation

$E': \underline{(9, 8)}, \quad F': \underline{(5, 8)}$

$G': \underline{(5, 6)}$

8)  $T(-6, 9), U(-3, 0), V(10, 3)$

90° clockwise rotation

$T': \underline{(9, 6)}, \quad U': \underline{(0, 3)}$

$V': \underline{(3, -10)}$

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