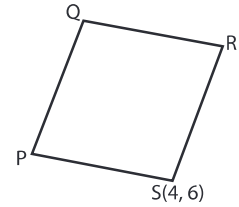
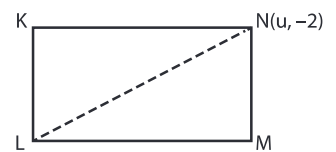


Identifying Unknowns

- 1) If $S(4, 6)$ is a vertex of the rhombus PQRS and the equation of \overline{SR} is given by $mx - 3y = 14$, then find the value of m .



- 2) KLMN is a rectangle. If $N(u, -2)$ lies on the diagonal \overline{LN} whose equation is $-x + 2y = 10$, then what is the value of u ?



- 3) In the circle, $O(9, s)$ is the center and diameter \overline{WX} is 10 units long.

PREVIEW

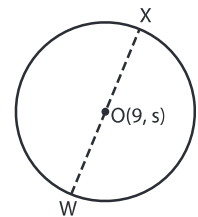
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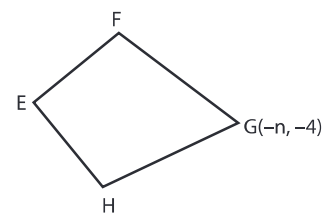
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- 4) Find the equation of a line containing the diameter \overline{WX} which passes through the center $O(9, s)$.



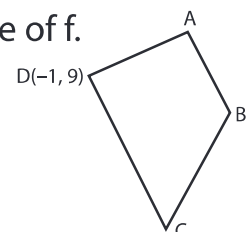
- 5) EFGH is a kite. If $G(-n, -4)$ is a vertex and \overline{EG} is parallel to the x-axis, find the coordinates of the other vertices.

- 6) Find the equation of the line \overline{FG} which passes through the point $F(2, 3)$ and $G(-n, -4)$.



- 5) If $D(-1, 9)$ is a vertex of the parallelogram ABCD and the equation of the line containing the diagonal \overline{AC} is $2x - 3y = 15$, find the coordinates of the other vertices.

- 7) Find the value of f if the line \overline{AC} is perpendicular to the line \overline{BD} and the equation of the line containing \overline{BD} is $fx - 2y = 10$.



- 6) UVWX is a square whose diagonal \overline{UW} has the equation $-x - y = 9$. If $(-k, -12)$ is the intersecting point of the diagonal \overline{UW} and the side \overline{UV} , then find k .

