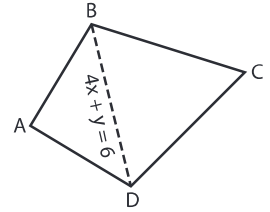
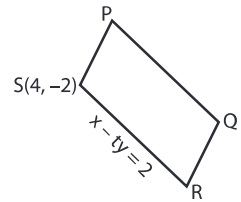


Identifying Unknowns

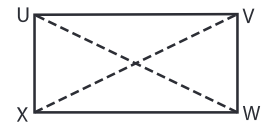
- 1) ABCD is a kite. If D(1, k) lies on the diagonal with equation is $4x + y = 6$, then what is the value of k?



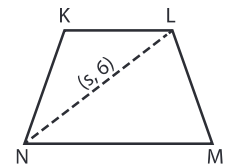
- 2) If S(4, -2) is a vertex of the parallelogram PQRS and the equation of \overline{SR} is given by $x - ty = 2$, then find the value of t.



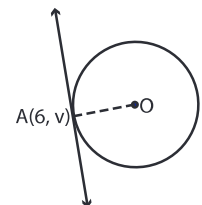
- 3) UVWX is a rectangle. The diagonals intersect at the point (m, -4). Find the value of m.



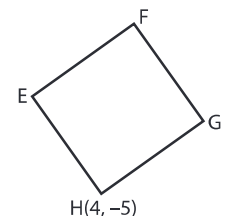
- 4) In the trapezoid KLMN, the diagonal LN is $3x - 4y = -9$. Find the value of x if L(2, 1) and N(x, 0) are the vertices.



- 5) The equation of a circle is $x^2 + y^2 - 6x + 8y - 11 = 0$. What is the value of v if A(6, v) is a point on the circle?



- 6) H(4, -5) is one of the vertices of the square EFGH. The equation of the side \overline{EH} is $ux + 5y = 3$. Find the value of u.



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