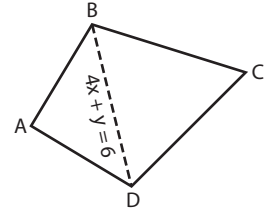
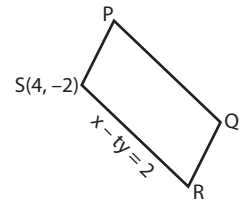


Identifying Unknowns

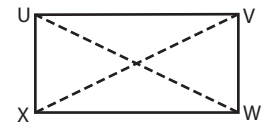
- 1) ABCD is a kite. If D(1, k) lies on the diagonal with equation is $4x + y = 6$, then what is the value of k?



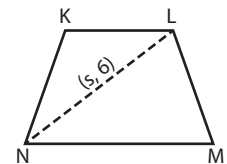
- 2) If S(4, -2) is a vertex of the parallelogram PQRS and the equation of \overline{SR} is given by $x - ty = 2$, then find the value of t.



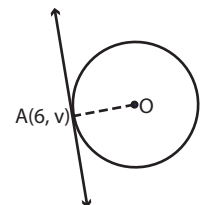
- 3) UVWX is a rectangle. The diagonals intersect at the point (3, 2). If the equation of \overline{UV} is $2y = 4$. If (m, -4) is a vertex of the rectangle, find the value of m.



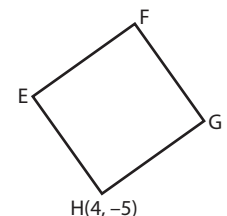
- 4) In the trapezoid KLMN, the diagonal LN is $3x - 4y = -9$. If the equation of \overline{KL} is $2x + y = 10$, find the value of x.



- 5) The equation of a circle is $x^2 + y^2 = 25$. What is the value of v if the tangent to the circle at A(6, v) is $3x + 4y = 25$?



- 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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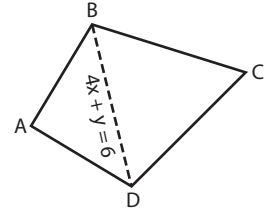
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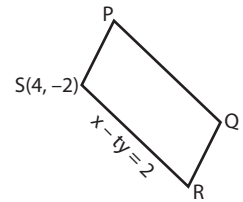
Identifying Unknowns

- 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?



k = 2

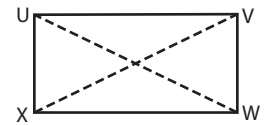
- 2) If S(4, -2) is a vertex of the parallelogram PQRS and the equation of \overline{SR} is given by $x - ty = 2$, then find the value of t.



t = -1

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

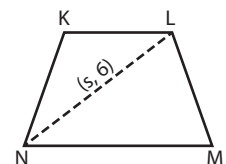
2y = 4. If (m, -4) is



m = -4

- 4) In the trapezoid KLMN, the diagonal LN is $3x - 4y = -9$. Find the value of x.

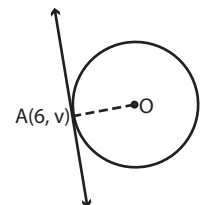
$\sqrt{2}$. If the equation of



s = 5

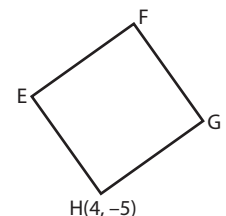
- 5) The equation of the tangent line to the circle $x^2 + y^2 = 25$ at point A(6, v) is $3x + 4y = 24$. What is the value of v?

the tangent at A(6, v).



v = 24

- 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.



u = 7

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