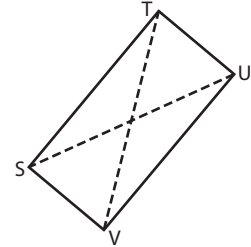
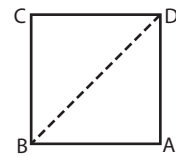


Identifying Unknowns

- 1) STUV is a rectangle. The diagonals of the rectangle meet at (2, 9). Find the value of p if one of the diagonal has the equation $px - y = -1$.

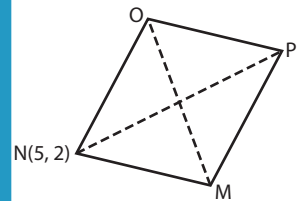


- 2) If D(4, s) is a vertex of the square ABCD and the equation of BD is given by $5x - 5y = 35$, then find the value of s.



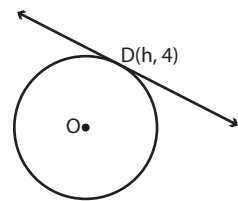
- 3) MNOP is a rhombus. The diagonal NP passes through M.

_____ containing NP which



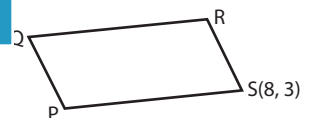
- 4) The equation of the line passing through P(5, 2) and Q(1, 2) is $ax + by = c$. What is the value of c?

_____ circle at D(h, 4).

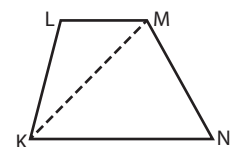


- 5) If S(8, 3) is a vertex of the parallelogram PQRS and the equation of the diagonal PR is $-x - ny = 22$, then find the value of n.

_____ on of PS is given by



- 6) KLMN is a trapezoid. If M(f, 2) lies on the diagonal MK whose equation is $x - y = 8$, then what is the value of f.



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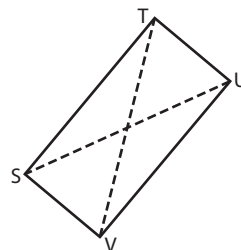
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Identifying Unknowns

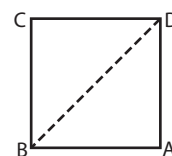
Sheet 5

- 1) STUV is a rectangle. The diagonals of the rectangle meet at $(2, 9)$. Find the value of p if one of the diagonals has the equation $px - y = -1$.



$p = 4$

- 2) If $D(4, s)$ is a vertex of the square ABCD and the equation of BD is given by $5x - 5y = 35$, then find the value of s .



$s = -3$

- 3) MNOP is a rhombus. The diagonal NP passes through M. Find the value of t .

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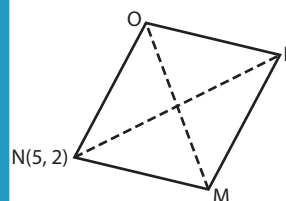
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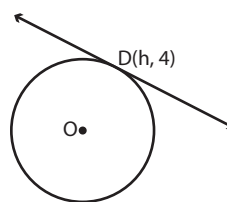
Find the value of t for the line containing NP which



$t = 2$

- 4) The equation of the line passing through the point $D(h, 4)$ is $3x - 2y = 12$. What is the value of h ?

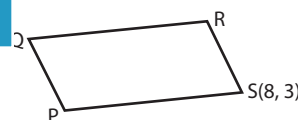
Find the value of h for the line tangent to the circle at $D(h, 4)$.



$h = 3$

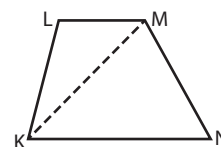
- 5) If $S(8, 3)$ is a vertex of the parallelogram PQRS and the equation of the line containing PS is given by $nx - y = 10$, then find the value of n .

Find the value of n for the line containing PS is given by



$n = -10$

- 6) KLMN is a trapezoid. If $M(f, 2)$ lies on the diagonal MK whose equation is $x - y = 8$, then what is the value of f ?



$f = 10$