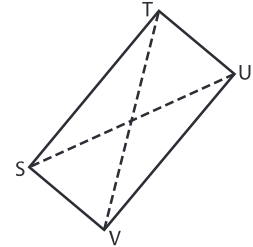


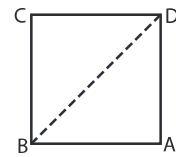
# Identifying Unknowns

- 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  $px - y = -1$ .



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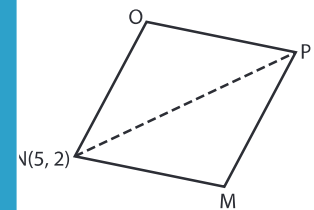
- 2) If D(4, s) is a vertex of the square ABCD and the equation of  $\overline{BD}$  is given by  $5x - 5y = 35$ , then find the value of s.



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- 3) MNOP is a rhombus. The diagonal  $\overline{NP}$  passes through M.

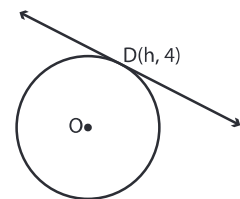
\_\_\_\_\_ containing  $\overline{NP}$  which



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- 4) The equation of a circle is  $x^2 + y^2 - 4x + 6y - 12 = 0$ . What is the value of h if the point D(h, 4) lies on the circle?

\_\_\_\_\_ cle at D(h, 4).



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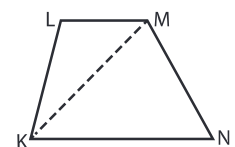
- 5) If S(8, 3) is a vertex of the parallelogram PQRS and the equation of the diagonal  $\overline{PS}$  is given by  $2x - y = 13$ , then find the value of p.

\_\_\_\_\_ on of  $\overline{PS}$  is given by



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



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