

Name : \_\_\_\_\_

## Parallel and Perpendicular Lines

Sheet 2

- 1)  $(3, 3)$  and  $(7, -1)$  are the endpoints of a chord KL.  $(3, -5)$  and  $(7, -1)$  are the endpoints of a chord MN. Prove that the chords are perpendicular.
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- 2) Equation of a line AB is  $y = 7x + 1$ . A line CD passes through  $(9, -4)$  and  $(8, -11)$ . Prove that the lines AB and CD are parallel.
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- 3) Slope of a line PQ is  $\frac{1}{2}$ . Triangle PQR is a right-angled triangle with vertices  $P(6, 2)$  and  $Q(8, -4)$ . Is  $R$  on the circle.
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- 4)  $L(2, 1)$  is the centre of a circle. Are the line segments  $LM$  and  $LN$  perpendicular? Answer.
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- 5) The coordinates of S and T are  $(8, 9)$  and  $(6, 5)$  respectively. Equation of a line UV is  $2y = 4x - 16$ . Prove that the lines ST and UV are parallel.
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