

## Parallel and Perpendicular Lines

- 1) Equation of a chord is  $3y = 5x + 11$ . Endpoints of another chord is  $(1, -6)$  and  $(4, -1)$ . Prove that the chords are parallel.

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- 2) A line PQ passes through  $(-8, -1)$  and  $(-2, 3)$ . Equation of a line RS is  $-2y = 3x + 13$ . Is  $\overleftrightarrow{PQ}$  parallel to  $\overleftrightarrow{RS}$ ? Justify.

# PREVIEW

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- 3)  $M(2, -7)$  is the centre of a circle. A line  $5y = -x - 7$  is a chord of the circle. A line  $5y = -x - 7$  is perpendicular to the chord.

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- 4)  $(-4, 2)$  and  $(5, 6)$  are the endpoints of a chord UV. Are they perpendicular? 3) are the endpoints of a chord. Give your answer.

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- 5) A line EF passes through  $(2, 5)$  and  $(3, 11)$ . Slope of a line GH is 6. Prove that the lines EF and GH are parallel.

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