

Name : _____

Parallel and Perpendicular Lines

Sheet 1

- 1) Equation of a line m is $y = 3x + 5$. Slope of a line n is 3. Prove that the lines are parallel.

- 2) Equation of \overleftrightarrow{AB} is $5y - 15x = -20$. Equation of \overleftrightarrow{CD} is $y = -\frac{1}{3}x + 15$. Prove that $\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$.

- 3) Equation of the line p is $y = 2x + 1$. Equation of the line q is $y = -\frac{1}{2}x + 3$. Are the lines parallel or perpendicular? Justify your answer.

PREVIEW
Gain complete access to the largest collection of worksheets in all subjects!

_____ the lines parallel or

- 4) Equation of line p is $y = 3x + 2$. Equation of line q is $y = -\frac{1}{3}x + 4$. Are the lines parallel or perpendicular? Justify your answer.

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

_____ prove that the lines

- 5) Equation of two lines are $y + 6x = -3$ and $18y = 3x + 13$. Are the lines parallel? Justify your answer.
