Parallel and Perpendicular Lines

Sheet 1

1) The coordinates of P and Q are (2, 6) and (4, 5) respectively. Equation of a line RS is y = 2x - 3. Prove that the lines PQ and RS are perpendicular.

2) J(-4, 2) is the center of a circle. K(-1, 5) is any point on the circle. A line y = x + 9 is a chord of the circle. Prove that the line segment JK is parallel to the chord.

PREVIEW

3) A line ST passes th lines ST and UV ar

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

is $\frac{1}{5}$. Prove that the

4) The endpoints of x = x - 11. Is triand

Members, please
log in to
download this
worksheet.

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

www.mathworksheets4kids.com

equation of a line BC is

5) (-9, -6) and (-5, -10) are the endpoints of a chord EF. (-5, -10) and (-1, -6) are the endpoints of a chord GH. Are the chords parallel or perpendicular? Justify.