## Parallel and Perpendicular Lines

Sheet 4

1) R(1, 3) is the center of a circle. S(-2, 6) is any point on the circle. A line y = -x + 11 is a chord of the circle. Prove that the line segment RS is parallel to the chord.

2) The endpoints of a line segment LM are (3, 6) and (5, 3). The equation of line MN is 3y = 2x - 1. Is the triangle LMN is a right triangle? Justify your answer.



3) (3, –7) and (8, –2) a endpoints of a cho

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, –7) are the lar.

4) The coordinates o 3y = -x + 16. Prove

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quation of a line RS is

5) A line WX passes through (-8, 3) and (-5, 8). Slope of a line UV is  $\frac{5}{3}$ . Prove that the lines WX and UV are parallel.