Parallel and Perpendicular Lines

1) The coordinates of A and B are (1, 3) and (5, 7) respectively. Equation of a line CD is $y = -x + 12$. Prove that the lines AB and CD are perpendicular.

2) P(5, 7) is the center of a circle. Q(3, 5) and R(7, 5) are any points on the circle. Are the line segments PQ and PR perpendicular? Justify your answer.

3) A line KL passes th_____ N is $y = 2x - 11$. Is $\overleftrightarrow{KL}$ parallel to $\overleftrightarrow{MN}$

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4) Equation of a cho_____ -8, -9) and (3, 2). Prove that the cho_____

5) The endpoints of a line segment DE are (−8, 7) and (−6, 3). The equation of a line EF is $y = 2x - 11$. Is triangle DEF a right triangle? Justify your answer.