

- 3.3 Given: $P(1;7)$ and $Q(3;-1)$ are two points in a Cartesian plane.
- Calculate the following:
- 3.3.1 The length of PQ. Leave the answer in simplified surd form. (2)
 - 3.3.2 The coordinates of M, the midpoint of PQ. (2)
 - 3.3.3 The equation of PQ. Write the answer in gradient-intercept form. (3)
 - 3.3.4 The inclination of line PQ. (2)
 - 3.3.5 The equation of the line perpendicular to PQ which passes through M (3)
- 3.4 $(b;-\sqrt{2})$ is a point on the circle $x^2 + y^2 = 18$. Determine the values of b . (2)

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