

In the diagram, $M(3 ; -5)$ is the centre of the circle having PN as its diameter. KL is a tangent to the circle at $N(7 ; -2)$.



4.1 Calculate the coordinates of P . (2)

4.2 Determine the equation of:

4.2.1 The circle in the form $(x-a)^2 + (y-b)^2 = r^2$ (3)

4.2.2 KL in the form $y = mx + c$ (5)

4.3 For which values of k will $y = -\frac{4}{3}x + k$ be a secant to the circle? (4)

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Ying Liu



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