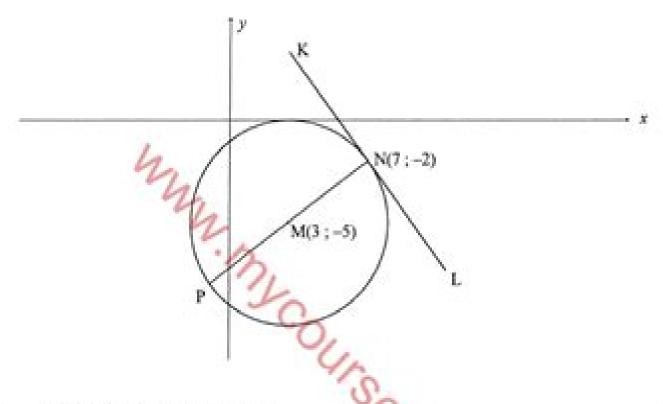
In the diagram, M(3; -5) is the centre of the circle having PN as its diameter. KL is a tangent to the circle at N(7; -2).



- 4.1 Calculate the coordinates of P.
- 4.2 Determine the equation of:
  - 4.2.1 The circle in the form  $(x-a)^2 + (y-b)^2 = r^2$  (3)

(2)

(5)

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

# **Maths Paper 1 Grade 12 November 2010**

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