

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)

# Maths Paper 1 Grade 12 November 2010

**RJ Alexander**



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

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