

Q1
Part 1

For real equal roots:

$$D = 0$$

$$b^2 = 4ac$$

$$(-2(k+1))^2 = 4 \cdot (k+1) \cdot 1$$

$$4k^2 + 4 + 8k = 4k + 4$$

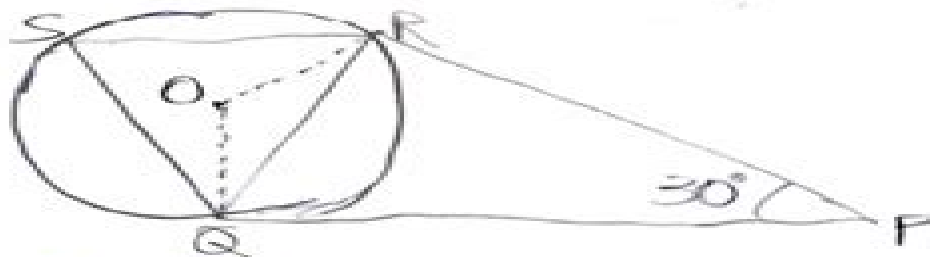
$$4k^2 = -4k$$

$$4k = -4$$

$$k = \frac{-4}{4} = \boxed{-1}$$

Q2

Let O be the centre of the circle. Join OR & OQ.



In $\triangle RPQ$,

$$\angle ROQ + \angle ORP + \angle OQR + \angle RPQ = 360^\circ \quad [\text{Angle Sum Property}]$$

$$\angle ROQ + 90^\circ + 90^\circ + \angle RPQ = 360^\circ \quad [\text{tangent} \perp \text{radius}]$$

$$\angle ROQ + 30^\circ = 180^\circ$$

$$\angle ROQ = \underline{\underline{150^\circ}}$$



Harmonised Mathematics Pb1

**Rheta Rubenstein, Timothy
Craine, Thomas Butts**



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