(3)

(3)

Turn ove

Q9



10. The circle C has centre X(3, 5) and radius r

The line I has equation y = 2x + k, where k is a constant.

(a) Show that I and C intersect when

$$5x^2 + (4k - 26)x + k^2 - 10k + 34 - r^2 = 0$$

Given that I is a tangent to C,

(b) show that $5r^2 = (k + p)^2$, where p is a constant to be found.

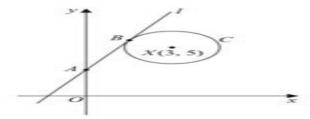


Figure 2

The line /

- cuts the y-axis at the point A
- touches the circle C at the point B

as shown in Figure 2.

Given that AB = 2r

(c) find the value of k





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