

$$\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$$

A (1, -1) and D (-3, 4)

$$\frac{y - (-1)}{4 - (-1)} = \frac{x - 1}{-3 - 1}$$

$$\frac{y + 1}{5} = \frac{x - 1}{-4}$$

$$(-4)(y + 1) = 5(x - 1)$$

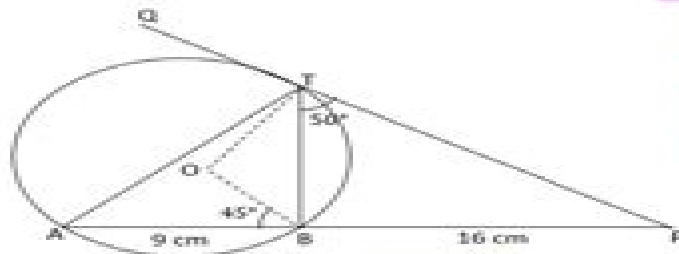
$$-4y - 4 = 5x - 5$$

$$-4y - 5x = -1$$

$$5x + 4y = 1$$

Therefore, the equation of line AD is $5x + 4y = 1$

(iii) In the given figure, O is the centre of the circle. PQ is a tangent to the circle at T . Chord AB produced meets the tangent at P .



$AB = 9 \text{ cm}$, $BP = 16 \text{ cm}$, $\angle PTB = 50^\circ$

$\angle OBA = 45^\circ$

Find:

(a) length of PT

(b) $\angle BAT$

(c) $\angle BOT$

(d) $\angle ABT$

[4]

Answer: $PT = 15 \text{ cm}$, $\angle BAT = 50^\circ$, $\angle BOT = 100^\circ$, $\angle ABT = 85^\circ$

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