

11. The curve  $C$  has equation

$$y = 2x - 8\sqrt{x} + 5, \quad x \geq 0$$

(a) Find  $\frac{dy}{dx}$ , giving each term in its simplest form.

(3)

The point  $P$  on  $C$  has  $x$ -coordinate equal to  $\frac{1}{4}$ .

(b) Find the equation of the tangent to  $C$  at the point  $P$ , giving your answer in the form  $y = ax + b$ , where  $a$  and  $b$  are constants.

(4)

The tangent to  $C$  at the point  $Q$  is parallel to the line with equation  $2x - 3y + 11 = 0$ .

(c) Find the coordinates of  $Q$ .

(5)

$$y = 2x - 8x^{\frac{1}{2}} + 5$$

$$\frac{dy}{dx} = 2 - 4x^{-\frac{1}{2}}$$

$$x = \frac{1}{4} \quad y = 2\left(\frac{1}{4}\right) - 8\sqrt{\frac{1}{4}} + 5 = \frac{1}{2} - 4 + 5 = \frac{1}{2}$$

$$x = \frac{1}{4} \quad M = 2 - 4\left(\frac{1}{4}\right)^{-\frac{1}{2}} \quad \left(\frac{1}{4}\right)^{-\frac{1}{2}} = 4^{\frac{1}{2}} = 2$$

$$M = 2 - 4(2) = -6$$

$$y - y_1 = M(x - x_1) \Rightarrow y - \frac{1}{2} = -6\left(x - \frac{1}{4}\right)$$

$$y - \frac{1}{2} = -6x + \frac{3}{2} \Rightarrow y = -6x + 2$$

$$c) \quad 3y = 2x + 11 \Rightarrow y = \frac{2}{3}x + \frac{11}{3} \quad M = \frac{2}{3}$$

$$\therefore 2 - 4x^{-\frac{1}{2}} = \frac{2}{3} \Rightarrow 2 - \frac{4}{\sqrt{x}} = \frac{2}{3} \Rightarrow \frac{4}{\sqrt{x}} = 2 - \frac{2}{3} = \frac{4}{3}$$

$$\frac{4}{\sqrt{x}} = \frac{4}{3} \Rightarrow \sqrt{x} = 3$$

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(9, -1)

$$y = 2(9) - 8\sqrt{9} + 5 = 18 - 24 + 5 = -1$$

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A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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