

4. [Maximum mark: 6]

Consider the curve  $y = \frac{1}{1-x} + \frac{4}{x-4}$ .Find the  $x$ -coordinates of the points on the curve where the gradient is zero.

$$y = (1-x)^{-1} + 4(x-4)^{-1}$$

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

$$= \frac{1}{(1-x)^2} - \frac{4}{(x-4)^2}$$

$$\frac{dy}{dx} = 0 \Rightarrow \frac{(x-4)^2 - 4(1-x)^2}{(1-x)^2(x-4)^2} = 0$$

$$\therefore (x-4)^2 - 4(1-x)^2 = 0$$

$$x^2 - 8x + 16 - 4(1 - 2x + x^2) = 0$$

$$-3x^2 + 12 = 0$$

$$3x^2 = 12$$

$$x^2 = 4$$

$$\therefore x = \pm 2$$

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