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4.1 Know that the gradient function $\frac{dy}{dx}$ gives the gradient of the curve and measures the rate of change of y with respect to x

1. A curve has the gradient function $\frac{dy}{dx} = 4x^2 + 3$

- (a) What is the gradient of the curve when $x = 2$?
- (b) Work out the values of x for which the rate of change of y with respect to x is 4.

$$\frac{dy}{dx} = 4 \times 2^2 + 3 = 16 + 3 = 19$$

$$\frac{dy}{dx} = \left[4 = 4x^2 + 3 \right]$$

$$4x^2 + 3 = 4 \Rightarrow x^2 = \frac{1}{4}$$

$$4x^2 = 1 \Rightarrow x = \frac{1}{2} \text{ or } -\frac{1}{2}$$

2. Work out the gradient of the curve $y = 4x^2 - 2x + 3$ at the point $(\frac{1}{2}, 3)$.

$$\frac{dy}{dx} = 8x - 2$$

$$\text{at } x = \frac{1}{2} \quad \frac{dy}{dx} = 8 \times \frac{1}{2} - 2 = 2$$

gradient ↙

Practice Questions



Guide For Vittal Maths Calculus

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