

Further Mathematics Exam

Module code: ACHA4006

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Question one

$$i) y = 5x^4 + 5x^2 + 3x - 10$$

$$\frac{dy}{dx} = 5(4x^3) + 5(2x) + 3$$

$$\frac{dy}{dx} = 20x^3 + 10x + 3$$

$$ii) y = (2x + 5)(x - 1)$$

$$y = 2x^2 - 2x + 5x - 5$$

$$y = 2x^2 + 3x - 5$$

$$\frac{dy}{dx} = 2(2x) + 3$$

$$\frac{dy}{dx} = 4x + 3$$