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Math Further Mathematics Exam 05/06/21

Module Code: ACHA 4006

Question 1

① $y = 7x^3 - 2x^2 + x + 2$

~~$\frac{dy}{dx}$~~ $\frac{dy}{dx} = 21x^2 + 4x^2$

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

$y = x^2 + 6x + 5 \quad dy = 2x + 6$

2. (i) $y = (x+3)(x+2)$

$y = 3x + x^2$

$y = 3x^2 + x$

$= 3x^2 + 2x + C$

(iii) ~~$y = \frac{1}{x^3} + \sin 3x$~~

(iii) $y = \frac{1}{x^3} + \sin 3x$