ADD MATHS | Form 5 Chapter 2.2: Differentiation (Part 1/2) First derivative of functions KSSM

Question 1

Differentiate each of the following functions with respect to x.

(a) $y = x^2 + 6x$

(b) $y = 3x - \frac{2}{x}$

(c) $y = (x-2)(2x+1)$

(d) $y = \frac{x^4+1}{x^2}$

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Question 2

Differentiate each of the following functions with respect to x.

(a) $y = (2x+1)^3$

(b) $y = 3(6x-8)^5$

(c) $y = -2(2-x)^3$

(d) $y = \frac{5}{(3x+4)^4}$

(e) $y = \frac{1}{1-x}$

(f) $y = \sqrt{3x^2-2}$

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