

CALCULUS (BASICS)NOVEMBER 2008

QUESTION 8

8.1 Determine $f'(x)$ from first principles if $f(x) = -3x^2$. (5)

8.2 Determine, using the rules of differentiation:

$$\frac{dy}{dx} \text{ if } y = \frac{\sqrt{x}}{2} - \frac{1}{6x^3}$$

Show ALL calculations.

(3)
[8]

FEB/MARCH 2009

QUESTION 11

11.1 Differentiate f by first principles where $f(x) = x^2 - 2x$. (5)

11.2 Evaluate:

11.2.1 $D_x[(x^2 - 3)^2]$ (3)

11.2.2 $\frac{dy}{dx}$ if $y = \frac{4}{\sqrt{x}} - \frac{x^4}{9}$ (3)
[11]

NOVEMBER 2009

QUESTION 10

10.1 Differentiate $f(x)$ from first principles if $f(x) = -2x^2 + 3$. (5)

10.2 Evaluate: $\frac{dy}{dx}$ if $y = x^2 - \frac{1}{2x^3}$ (2)
[7]

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QUESTION 10

10.1 Differentiate f from first principles: $f(x) = \frac{1}{x}$ (4)

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