

FEB/MARCH 18

QUESTION 8

8.1 Determine $f'(x)$ from first principles if $f(x) = 4x^2$. (5)

8.2 Determine:

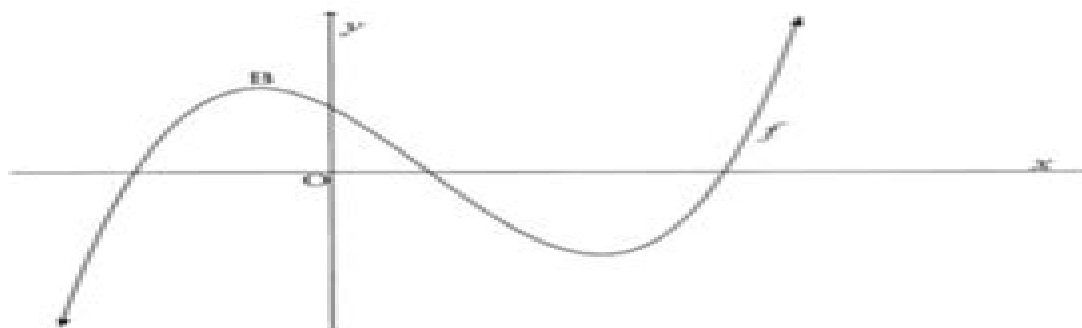
8.2.1 $D_x \left[\frac{x^2 - 2x - 3}{x + 1} \right]$ (3)

8.2.2 $f''(x)$ if $f(x) = \sqrt{x}$ (3)

[11]

QUESTION 9

The sketch below represents the curve of $f(x) = x^3 + bx^2 + cx + d$. The solutions of the equation $f(x) = 0$ are -2 ; 1 and 4 .



9.1 Calculate the values of b , c and d . (4)

9.2 Calculate the x -coordinate of B , the maximum turning point of f . (4)

9.3 Determine an equation for the tangent to the graph of f at $x = -1$. (4)

9.4 In the ANSWER BOOK, sketch the graph of $f'(x)$. Clearly indicate the x - and y -intercepts on your sketch. (3)

9.5 For which value(s) of x is $f(x)$ concave upwards? (2)

[17]

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