

-
2. $f(x) = 3x^3 - 7x^2 + 7x - 10$
- (a) Use the factor theorem to show that $(x - 2)$ is a factor of $f(x)$ (2)
- (b) Find the values of the constants a , b and c such that
- $$f(x) = (x - 2)(ax^2 + bx + c)$$
- (3)
- (c) Using your answer to part (b) show that the equation $f(x) = 0$ has only one real root. (2)
- (Total for Question 2 is 7 marks)
-

2.2

a) $f(2) = 3(2)^3 - 7(2)^2 + 7(2) - 10 = 0$

no remainder $\therefore (x-2)$ is a factor of $f(x)$

b)

$$\begin{array}{r}
 2x^2 - x + 5 \\
 x-2 \overline{) 3x^3 - 7x^2 + 7x - 10} \\
 \underline{3x^3 - 6x^2} \\
 -x^2 + 7x \\
 \underline{-x^2 + 2x} \\
 5x - 10 \\
 \underline{5x - 10} \\
 0
 \end{array}$$

$(x-2)(3x^2 - x + 5)$

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