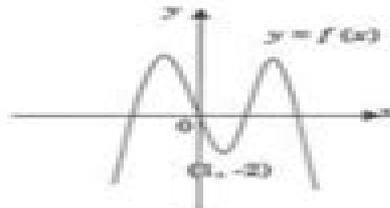
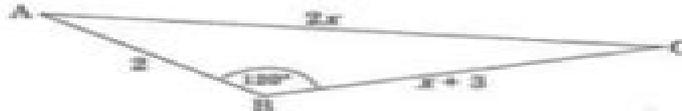


June 2000
Cape Unit 1 Paper 1
Section 1 (Module 1.1)
Answer ALL questions

1. (a) If $x^3 + 2x^2 - 5x - 6 = (x - 2)(x + 3)(x - k)$, find the value of k . (2 marks)
 (b) Find the real values of x which satisfy the equation $|2x + 3| = 5$. (3 marks)
2. (a) Express $1 - 2x - 3x^2$ in the form $a(x + h)^2 + k$, stating explicitly the values of a , h and k . (3 marks)
 (b) Solve for x , the equation $2^{3-2x} = \left(\frac{1}{64}\right)^{x-1}$. (3 marks)
3. The diagram below shows the graph $y = f(x)$ which has a minimum point at $(1, -2)$. State the coordinates of the minimum point on the graph with equation
- (a) $y = f(x) + 2$ (2 marks)
 (b) $y = f(x - 3)$ (2 marks)
 (c) $y = 4f(x)$. (2 marks)



4. In triangle ABC, $\angle ABC = 120^\circ$, $AB = 2$ m, $AC = 2x$ m and $BC = (x + 3)$ m. Show that $3x^2 - 8x - 19 = 0$. (6 marks)



5. The functions f and g are defined on \mathbb{R} by
 $f: x \rightarrow 2x$
 $g: x \rightarrow x^2 - 3$.
 Determine the set of values of x for which $f(f(x)) = g(g(x))$.

(7 marks)
Total 30 marks

Section 2 (Module 1.2)
Answer ALL questions

6. Let α, β be the roots of the equation $4x^2 - 3x + 1 = 0$.
- (a) Without solving the equation, write down the values of
 (i) $\alpha + \beta$
 (ii) $\alpha\beta$. (1 mark)
- (b) Find the value of $\alpha^2 + \beta^2$. (2 marks)
- (c) Find the equation whose roots are $\frac{2}{\alpha^2}$ and $\frac{2}{\beta^2}$. (3 marks)

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