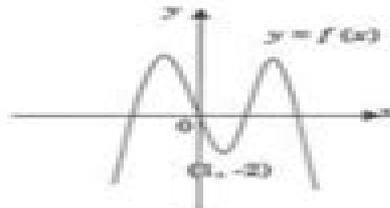
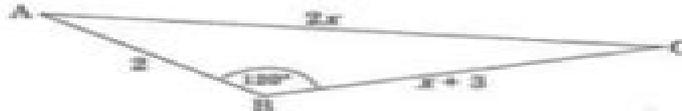


June 2000  
Cape Unit 1 Paper 1  
Section 1 (Module 1.1)  
Answer ALL questions

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

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