$$f(x) = 2x^2 + 7x - 4$$

Given that f(x) can be written in the form $A(x + B)^2 + C$

(a) find the value of A, the value of B and the value of C.

(3)

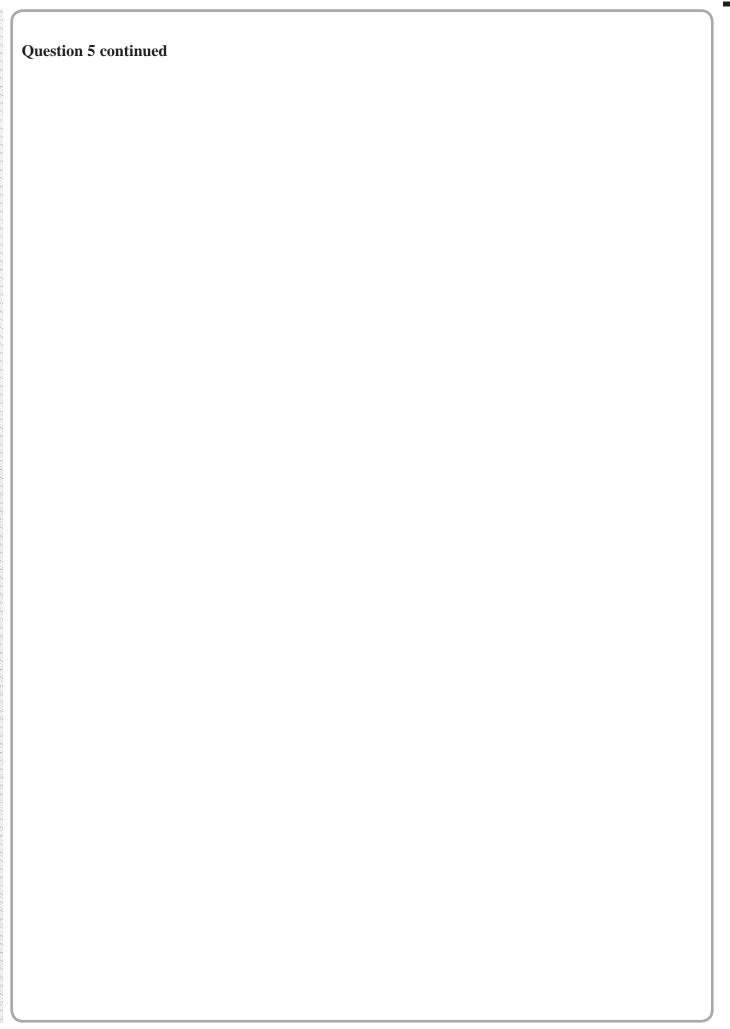
- (b) Write down
 - (i) the minimum value of f(x),
 - (ii) the value of x at which this minimum occurs.

(2)

The equation f(x) = px - 6 has unequal real roots.

(c) Find the set of possible values of p.

(5)



Question 5 continued

Question 5 continued

(Total for Question 5 is 10 marks)

