

5.

$$f(x) = x^3 + 4x^2 + x - 6.$$

(a) Use the factor theorem to show that  $(x + 2)$  is a factor of  $f(x)$ .

(2)

(b) Factorise  $f(x)$  completely.

(4)

(c) Write down all the solutions to the equation

$$x^3 + 4x^2 + x - 6 = 0.$$

(1)





























