

11 In this question you must show detailed reasoning.

You are given that $f(x) = (x+2)(x^2 - 7x + 6)$.

(a) Solve the equation $f(x) = 0$. **[3]**

(b) Show that there is a minimum point on the curve $y = f(x)$ when $x = 4$. **[4]**

(c) Find the exact coordinates of the other stationary point on the curve $y = f(x)$. **[2]**