

**4** The quadratic function  $f(x)$  is given by  $f(x) = x^2 - 3x + 2$ .

**(a)** Write  $f(x)$  in the form  $(x + a)^2 + b$ , where  $a$  and  $b$  are constants. **[2]**

**(b)** Write down the coordinates of the minimum point on the graph of  $y = f(x)$ . **[2]**

**(c)** Describe fully the transformation that maps the graph of  $y = f(x)$  onto the graph of  $y = (x + 1)^2 - \frac{1}{4}$ . **[2]**