

- 1** **(a)** Express $3x^2 - 12x + 17$ in the form $a(x - b)^2 + c$ where a , b and c are constants. **[3]**
- (b)** State the coordinates of the minimum point of the curve $y = 3x^2 - 12x + 17$. **[1]**
- (c)** State the equation of the normal to the curve $y = 3x^2 - 12x + 17$ at its minimum point. **[1]**