

1 (a) Express $x^2 + 8x + 2$ in the form $(x + a)^2 + b$. **[2]**

(b) Write down the coordinates of the turning point of the curve $y = x^2 + 8x + 2$. **[1]**

(c) State the transformation(s) which map(s) the curve $y = x^2$ onto the curve $y = x^2 + 8x + 2$. **[2]**