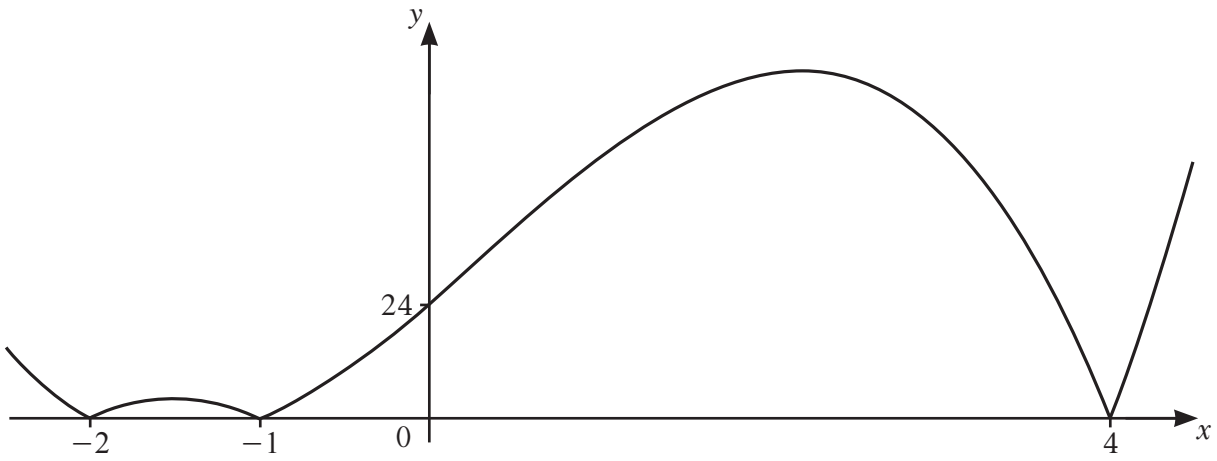
1

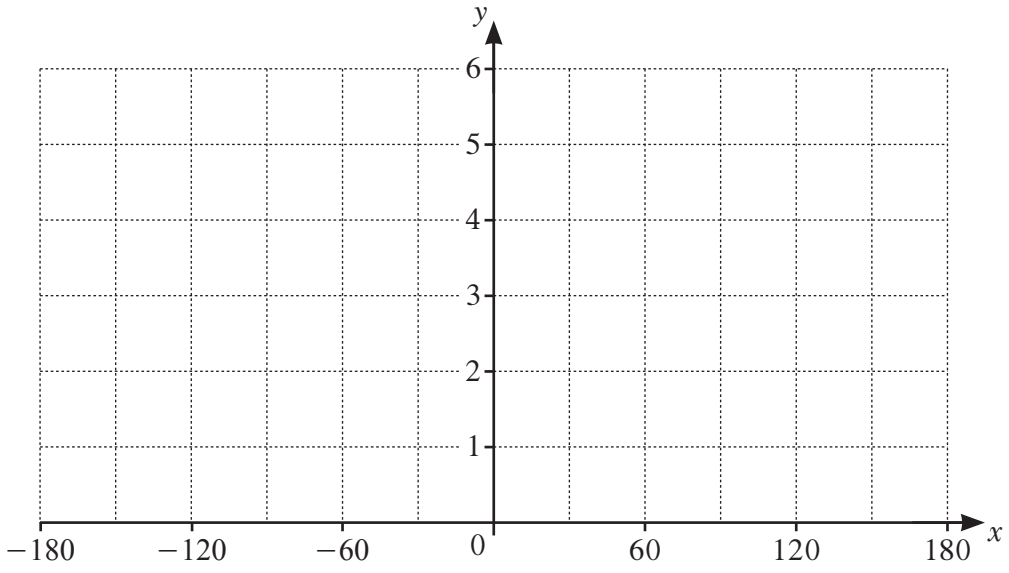


The diagram shows the graph of $y = |\mathrm{p}(x)|$, where $\mathrm{p}(x)$ is a cubic function. Find the two possible expressions for $\mathrm{p}(x)$. [3]

2 **(a)** Write down the amplitude of $1 + 4\cos\left(\frac{x}{3}\right)$. [1]

(b) Write down the period of $1 + 4\cos\left(\frac{x}{3}\right)$. [1]

(c) On the axes below, sketch the graph of $y = 1 + 4\cos\left(\frac{x}{3}\right)$ for $-180° \leqslant x° \leqslant 180°$.



[3]