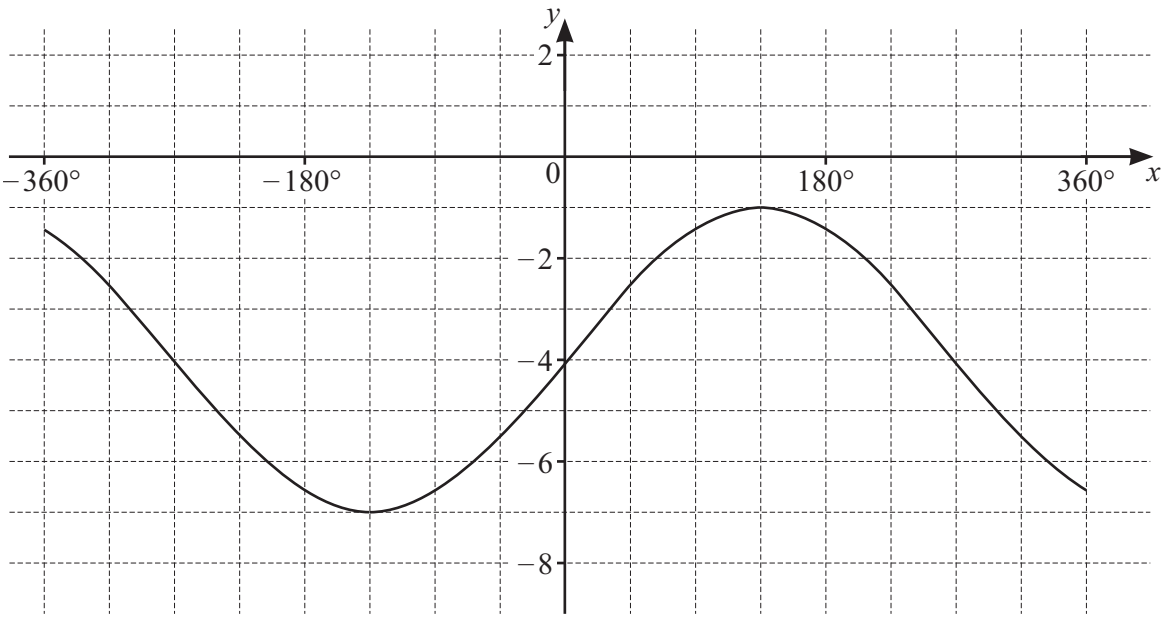
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The diagram shows the graph of $y = a\sin bx + c$ for $-360^\circ \leqslant x \leqslant 360^\circ$, where a, b and c are constants. Find the values of a, b and c. [3]

2 Given that $\log_3 r + 2\log_9 s = 8$, find the value of rs. [3]

3 Given that $y = \tan\frac{x}{2}$, find the exact value of $\frac{\mathrm{d}y}{\mathrm{d}x}$ when $x = \frac{\pi}{3}$. [4]

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