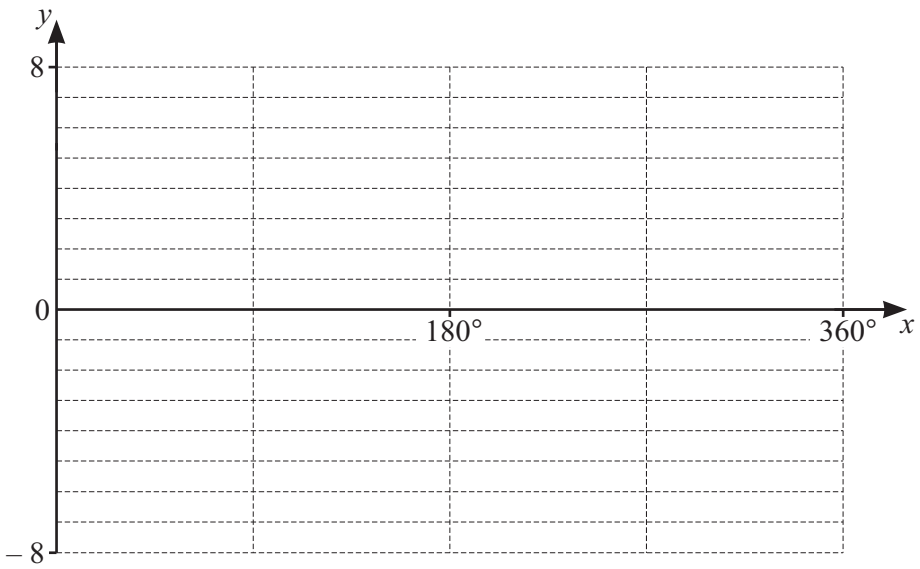
5 **(a)** Solve the equation $5|2x-1|+8=23$. [3]

(b) On the axes, sketch the graph of $y=5\sin x-2$ for $0° \leqslant x \leqslant 360°$. [2]



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6 A curve has equation $y = \left(\dfrac{x^2-1}{x^2+1}\right)^4$.

(a) Show that $\dfrac{\mathrm{d}y}{\mathrm{d}x}$ can be written as $\dfrac{Ax\left(x^2-1\right)^3}{\left(x^2+1\right)^5}$, where A is a positive integer to be found. [5]

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