4 **(a)** Solve the equation $x^{\frac{1}{3}} - x^{\frac{1}{6}} = 2$. [4]

(b) Solve the simultaneous equations

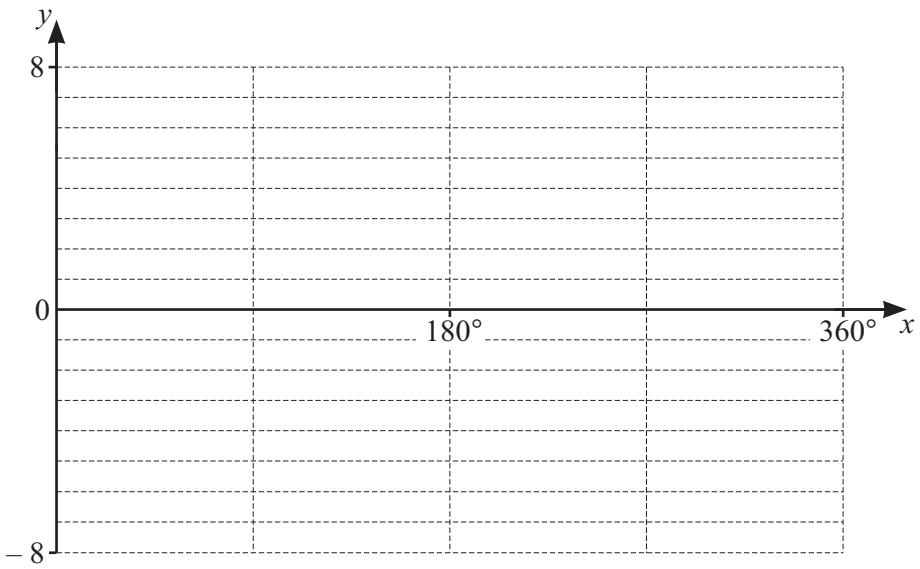
$$\lg(x+2y) = 0$$
$$x^2 + 4xy + y = 1.$$

[5]

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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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