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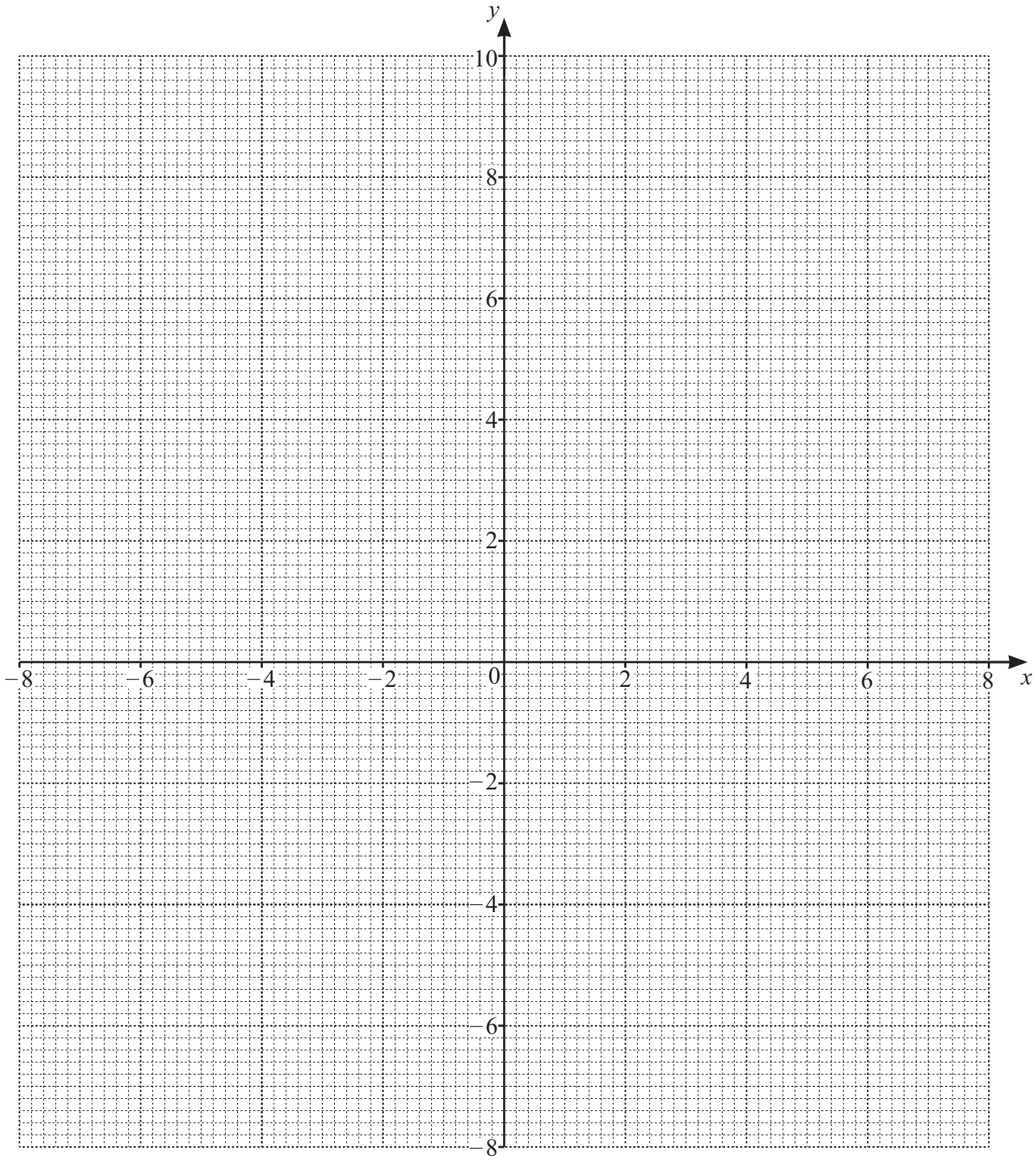
**3 DO NOT USE A CALCULATOR IN THIS QUESTION.**

The polynomial p is defined by $\mathrm{p}(x) = ax^3 - 3x^2 - 3x + b$, where $a$ and $b$ are constants.

**(a)** Given that $x = 2$ and $x = -1$ are roots of the equation $\mathrm{p}(x) = 0$, find $a$ and $b$. [3]

**(b)** Solve the equation $\mathrm{p}(x) = 0$. [2]

**4** Use a graphical method to solve the inequality $|2x-8|>4$. [5]




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