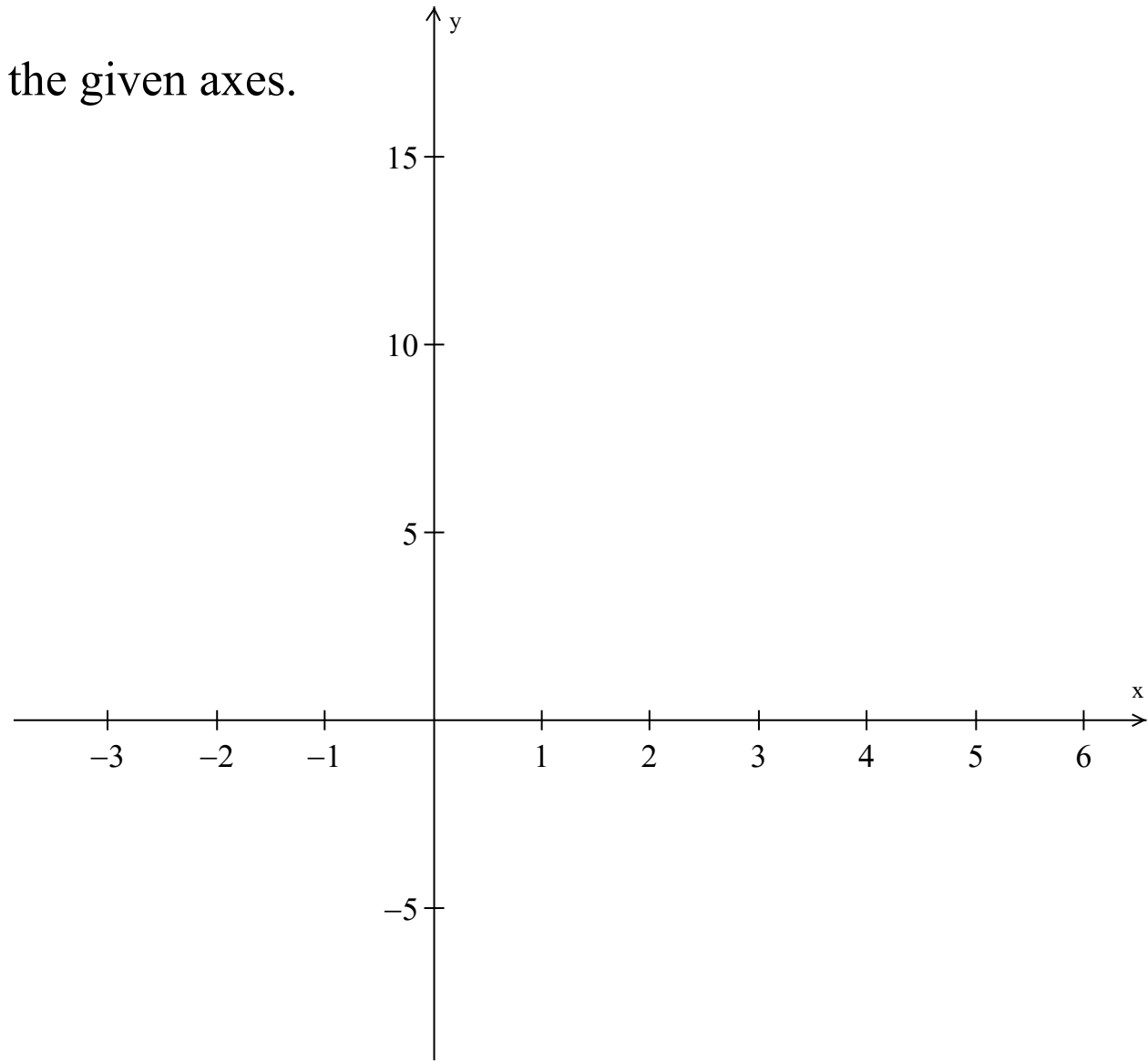


Sign Pattern Practice

Generate a sign pattern and use it to sketch the graph on the given axes.

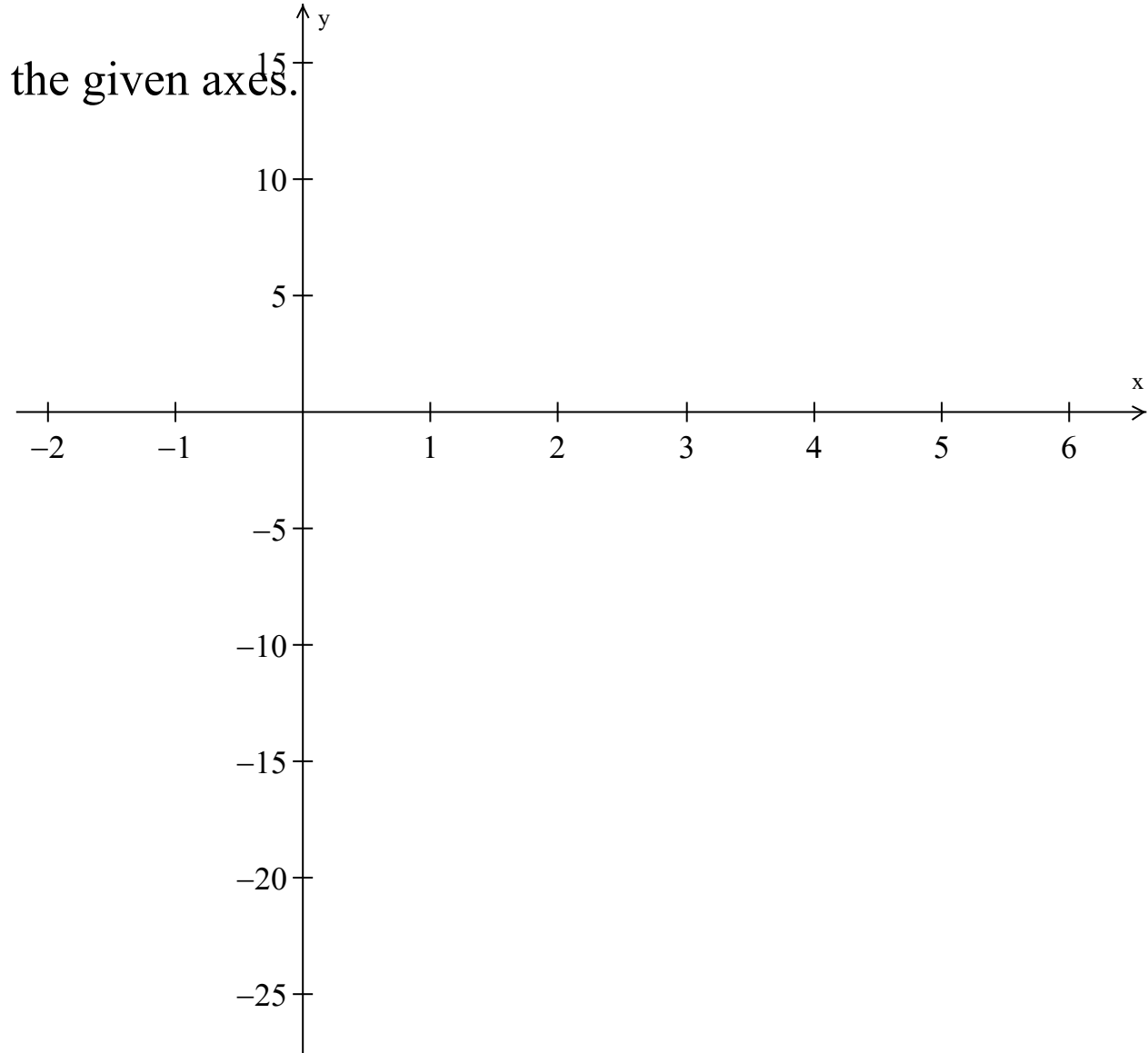
$$f(x) = x^3 - 7x^2 + 7x + 15$$



Generate a sign pattern and use it to sketch the graph on the given axes.

$$f(x) = 2x^3 - 11x^2 + 2x + 15$$

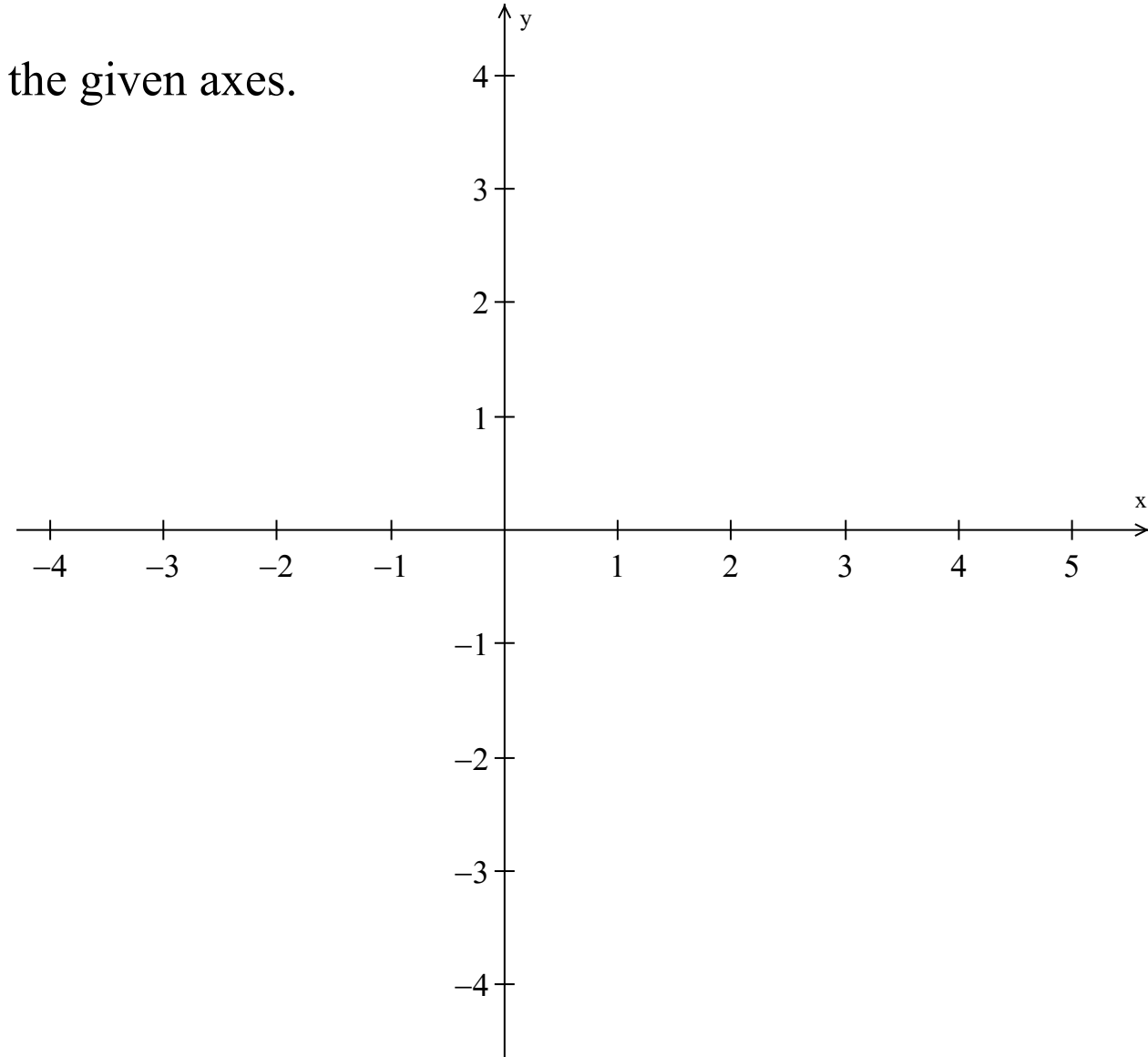
$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \quad -11 \quad 2 \quad 15$$



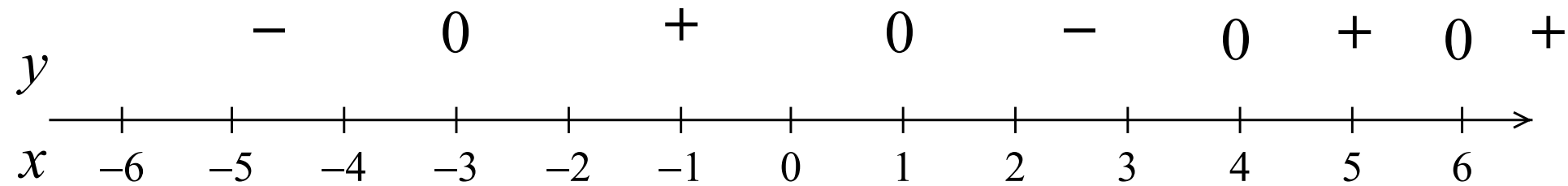
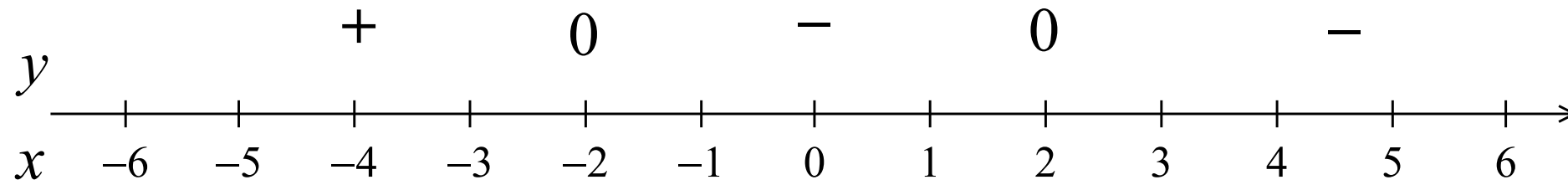
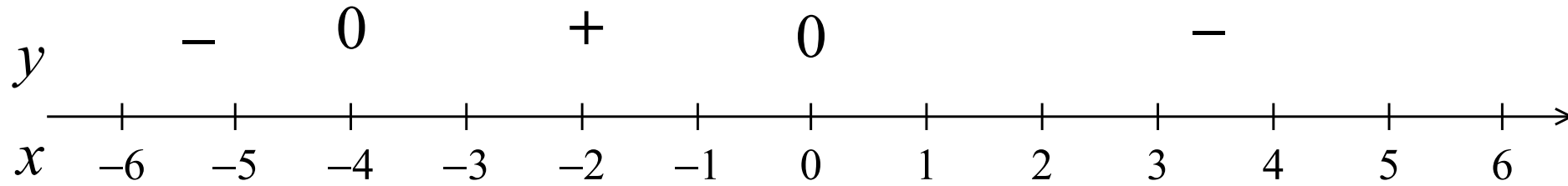
Generate a sign pattern and use it to sketch the graph on the given axes.

$$f(x) = x^3 - 3x - 2$$

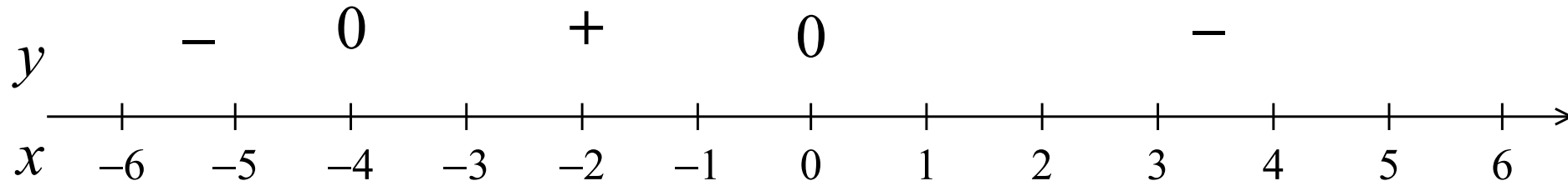
$$\begin{array}{r|rrrr} & 1 & 0 & -3 & -2 \end{array}$$



Write the function given the sign pattern



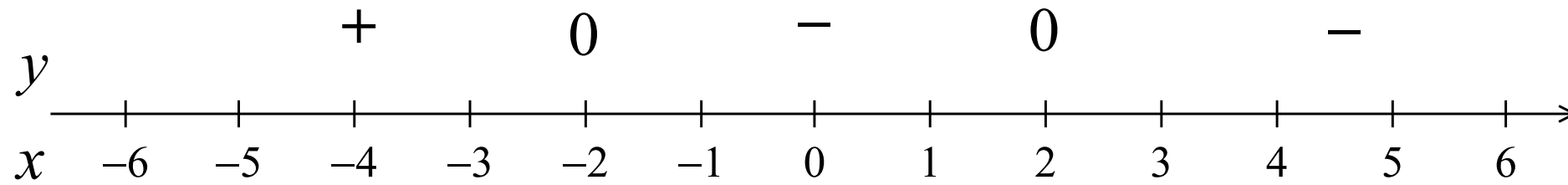
Write the inequality over the given set of numbers and sign pattern



$$x \in (-\infty, 4] \cup [0, \infty)$$

which just means

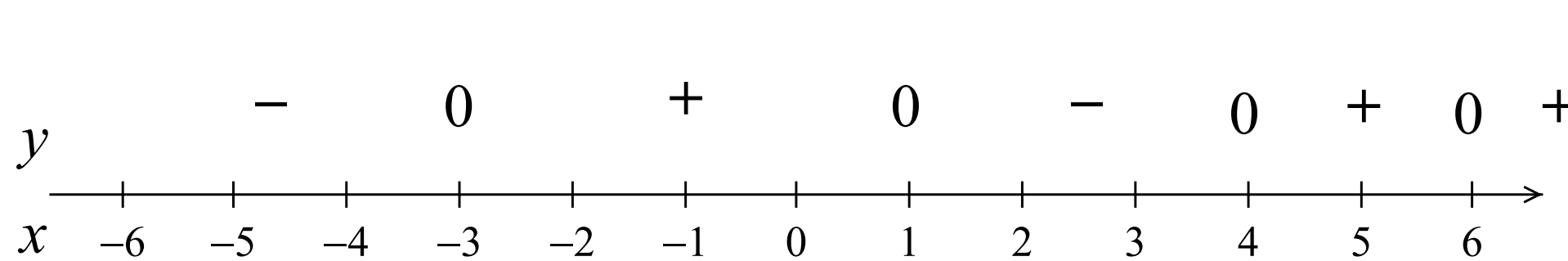
$$x < 4 \text{ or } x > 0$$



$$x \in [-2, \infty)$$

which just means

$$x \geq -2$$



$$x \in (-3, 1) \cup (4, 6) \cup (6, \infty)$$

which just means

$$-3 < x < 1$$

or

$$4 < x < 6$$

or

$$x > 6$$