Worked example

The function f(x) is defined by

$$f: x \to \begin{cases} 2 - 5x, & x < 1 \\ x^2 - 3, & x \ge 1 \end{cases}$$

- Sketch y = f(x), and state the range of f(x).
- Solve f(x) = 22

Your turn

The function f(x) is defined by

$$f: x \to \begin{cases} 5 - 2x, & x < 1 \\ x^2 + 3, & x \ge 1 \end{cases}$$

- Sketch y = f(x), and state the range of f(x).
- Solve f(x) = 19b)
- Sketch; f(x) > 3
- b) x = 4, x = -7

