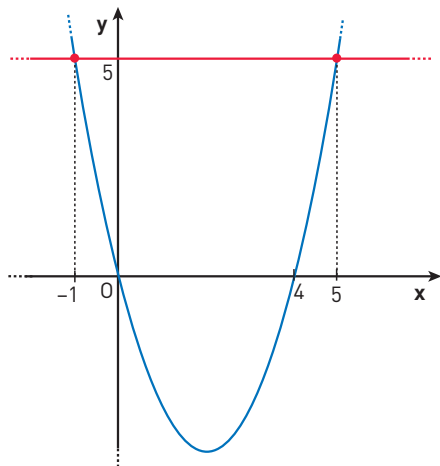**YOU & MATHS** **Parabolic set** Draw on the Cartesian plane the parabola given by the equation:

$$y = f(x) = x^2 - 4x.$$

Find all values of x such that $f(x) < 5$.

Let us draw the parabola $f(x) = x^2 - 4x$ and the line $y = 5$ on the Cartesian plane.

From the drawing we can visualize the values of x such that $f(x) < 5$ as the interval of the x-axis

$$-1 < x < 5.$$