

## 1. A function $f$ is defined by

$$f(x) = \begin{cases} 2x^2 - 1 & \text{if } x \leq 1 \\ x^2 + 1 & \text{if } x > 1 \end{cases}$$

$$f(0)$$

$$f(1)$$

$$f(2)$$

## 2. A function $f$ is defined by

$$f(x) = \begin{cases} 2x^2 - 1 & \text{if } x \leq 1 \\ x^2 + 1 & \text{if } x > 1 \end{cases}$$

$$f(0) = \quad f(1) = \quad f(2) = \quad f(3) = \quad f(4) = \quad f(5) =$$

## 3. A function $f$ is defined by

$$f(x) = \begin{cases} 2x^2 - 1 & \text{if } x \leq 1 \\ x^2 + 1 & \text{if } x > 1 \end{cases}$$

Write down the graph of the function  $f$ .

Graph of the function  $f$

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