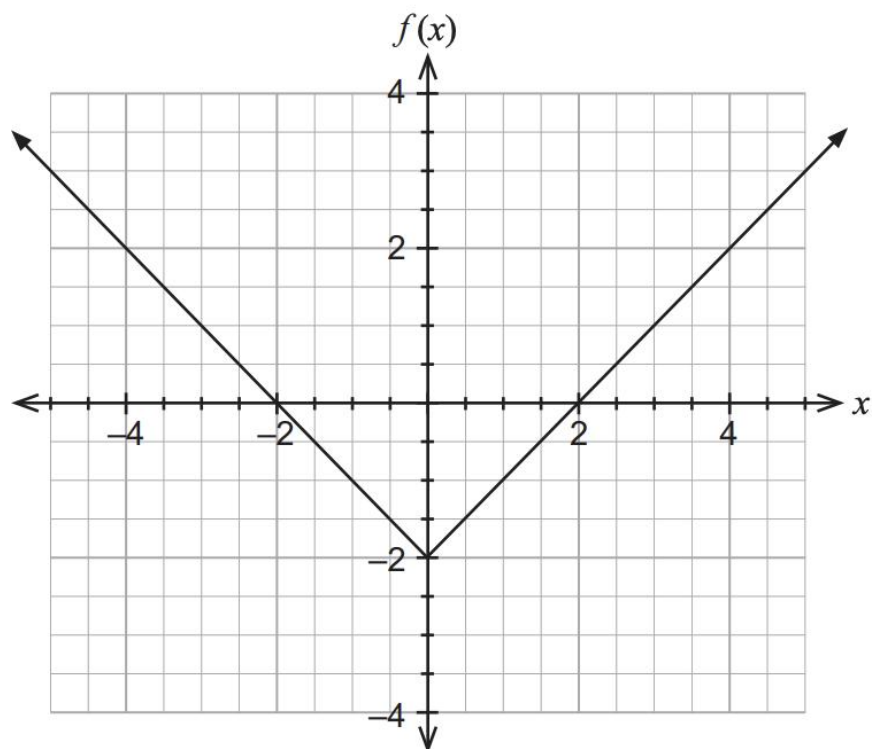


Question 21**(5 marks)**

The sketch of the graph of $y = f(x)$ is shown below.



Consider the equation $|f(x)| = k$ where k is any real constant.

Define function $N(k)$ = the number of real solutions to the equation $|f(x)| = k$.

Sketch the graph of function $N(k)$ on the axes below.

