

List of Words to guess

Function

Graph (of a function) = grafico

x-axis = asse delle ascisse

y-axis = asse delle ordinate

Cartesian plane

Origin

Point

Table

Rational number

Irrational number

Real number

Integer number = numero intero

Intersection

Function

Slope = pendenza

Increasing

Decreasing

Domain (of a function) = insieme di definizione

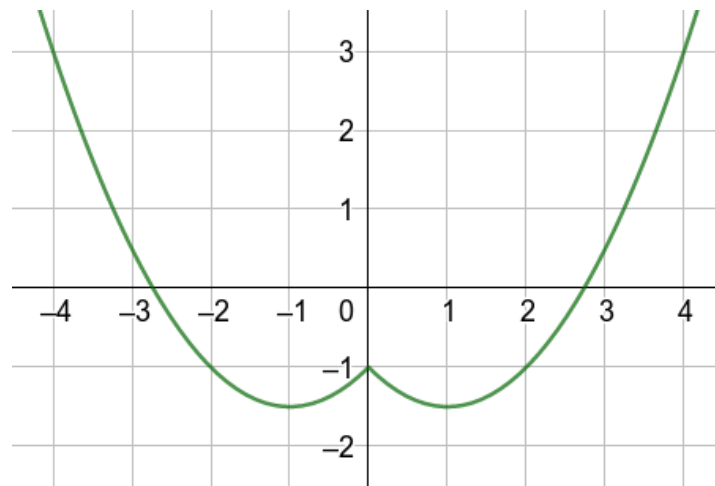
Range (of a function) = immagine

Line = retta

y-intercept = intersezione con l'asse delle ordinate

Absolute value

Fill in the gaps with the correct words, chosen from the preceding activity.



The image shows the _____ of the _____ $f(x) = \frac{x^2}{2} - |x| - 1$ (where $|x|$ reads “_____”).

The _____ is the intersection of f with the _____: it is the point with coordinates $(0, -1)$.

The _____ of f is the interval $[-2, +\infty)$.

The _____ of f consists of all the _____ numbers, that is the interval $(-\infty, +\infty)$.

The graph has two zeroes, that is _____ with the _____, namely the _____ with coordinates $(-1 - \sqrt{3}, 0)$ and $(1 + \sqrt{3}, 0)$ respectively. The x-coordinates of these points are _____.

The _____ of f in the intervals $(-1, 0)$ and $(1, +\infty)$ is positive: in other words, in these intervals the function is _____. On the other hand, in the intervals $(-\infty, -1)$ and $(0, 1)$ the function is _____.

The intersections of f with the _____ of equation $y = -1$ are three points with _____ coordinates: $(-2, -1)$, $(0, -1)$ and $(2, -1)$.