

The domain of a function is the complete set of possible values of the independent variable.
In plain English, this definition means:
The domain is the set of all possible $x$-values which will make the function "work" and will output real $y$-values.
When finding the domain, remember:


The domain of this function is $x \neq \pm 3$, since those values make the denominator zero.

## The number under a square root sign must be positive in this section

Here is the graph of $y=\sqrt{x+4}$ :


The domain of this function is $x \geq-4$, since $x$ cannot be less than -4

We have to avoid 0 on the bottom of a fraction, or negative values under the square root sign

