Algebra – What we Know ?

What we know ?

$x^2 + 1 \geq 1$

$x^2 - 4 \geq -4$

$x^2 + 4x + 4 = (x + 2)^2 \geq 0$ | $|x - 3| \geq 0$

$x^2 - 6x + 9 = (x - 3)^2 \geq 0$ | $\frac{x^3 - 4x}{x} > -4$, $x \neq 0$

$|x| + 4 \geq 4$ | $\frac{x^2 - 9}{x - 3} \Rightarrow$ any number $x \neq 3$

$|x| - 1 \geq -1$ | $\sqrt{x} + \frac{1}{2} \geq \frac{1}{2}$

$x^3 \Rightarrow$ can be any number

$-x \Rightarrow$ can be any number