

## Math-2A VOCAB 3-1 (Radicals)

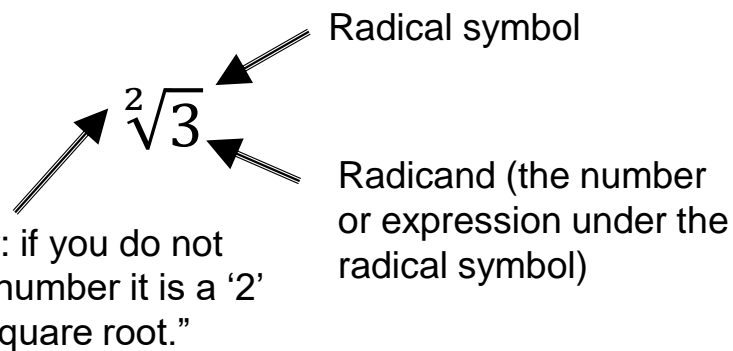
Irrational numbers: cannot be written as a ratio of integers:  $\frac{1}{2}$ ,  $-\frac{2}{3}$ , etc.

The decimal version of an irrational number never terminates and never repeats. (5.13257306...).

If we see the radical symbol, the number is usually irrational  $\sqrt{3}$  (unless it is a “perfect square).  $\sqrt{4} = 2$  (rational #)

Radical: is made up of:

- a) Index number
- b) Radicand
- c) Radical symbol



$x = \sqrt{3}$       The “square root of 3” means: “what number squared equals 3?”  
 $x^2 = 3$

$x = \sqrt[3]{4}$       The “3<sup>rd</sup> root of 4” means: “what number cubed equals 4?”  
 $x^3 = 4$