

b is the square rost of a

$$b = \sqrt{a}$$

if $b^2 = a$ $(3)^2 = 9$
 $\sqrt{9} = \pm 3$ $(-3)^2 = 9$
 $\sqrt{36} = \pm 6$

Cube roots

$$b = \sqrt[3]{a} \quad \text{if} \quad b^{3} = a$$

$$\sqrt[3]{27} = 3$$

$$\sqrt[3]{-27} = -3$$

$$\sqrt[3]{0.008} = 0.2$$

$$\sqrt{\frac{25}{81}} = \frac{\sqrt{25}}{\sqrt{81}} = \pm \frac{5}{9}$$
$$3\sqrt{-\frac{64}{343}} = -\frac{4}{7}$$

Rational can be expressed as a fraction - Repeating and terminating decimals Invational - Northminating nonvepeating decimal - can't be a fraction $\sqrt{2}$, TI