

January 15, 2016

$$\begin{array}{r} 100 \\ -30 \\ \hline 70 \end{array}$$

Jan 15-10:17 AM

$$\mathbb{Q} = \left\{ \frac{a}{b} \mid a \in \mathbb{Z} \neq b \in \mathbb{Z} \right\}$$

where $b \neq 0$

$\frac{1}{2}, \frac{5}{7}, \frac{9}{4}, -\frac{3}{4},$
 $0.83, -0.5, \frac{13}{1}$

Irrational Numbers
 = { where the numbers are not Rational }

$\pi, e, \sqrt{2}, \sqrt{3}$
 \uparrow
 3.14...

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$$\frac{3}{4} = 4 \overline{) \begin{array}{r} 0.75 \\ 3.00 \\ -2.80 \\ \hline 200 \\ 200 \\ \hline 0 \end{array}}$$

$$\frac{1}{6} = 6 \overline{) \begin{array}{r} 0.16\bar{6} \\ 1.0 \\ 6 \\ \hline 40 \\ 36 \\ \hline 40 \end{array}}$$

Jan 15-10:40 AM

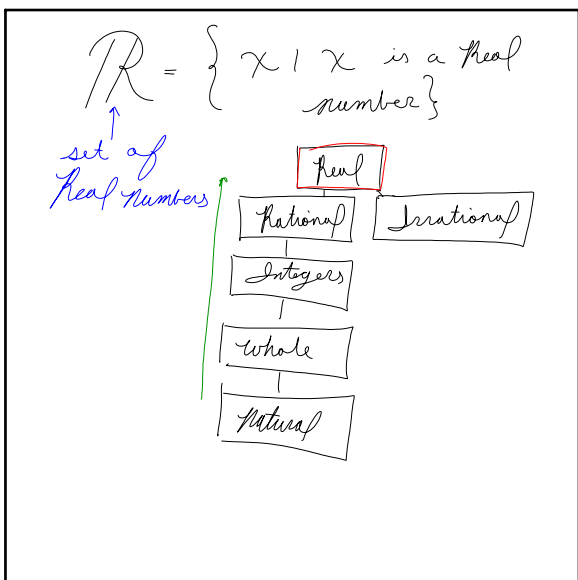
$\sqrt{6}$ is this irrational?

$\sqrt{6} = \frac{a}{b}$

Radical symbol $\sqrt{\quad} = \frac{a^2}{b^2}$ LCD: b^2

$6b^2 = a^2$
 $6 \cdot b \cdot b = a \cdot a$
 odd even

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