August 26, 2016

* Quiz #1 Monday

* SSC #1 - Blank

Aug 26-8:58 AM

CORD 1.1

#23) Prove that $\sqrt{3}$ is irrational?

① Suppose $\sqrt{3}$ is rational.

$$\left(\sqrt{3}\right)^2 = \left(\frac{m}{n}\right)^2$$

$$n^2\left(3 = \frac{m^2}{n^2}\right)$$

$$3n^2 = m^2$$

$3 \cdot n \cdot n \neq m \cdot m$

odd even

$\therefore$ $\sqrt{3}$ is irrational ■

therefore

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#22) $0.\overline{384}$ Convert to fraction

① $x = 0.\overline{384}$

② $1000(x = 0.\overline{384})$ 3 places → 1000

$1000x = 384.\overline{384}$

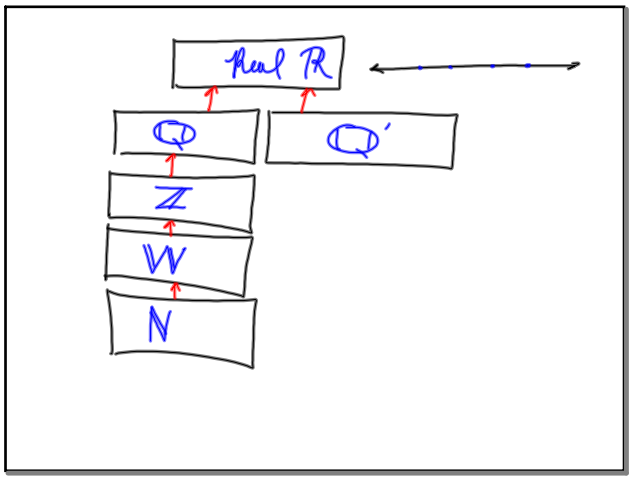
③ $1000x = 384.\overline{384}$

$-\ x = \quad .\overline{384}$

$$\frac{999x}{999} = \frac{384}{999}$$

$$x = \frac{384}{999} = \frac{128}{333}$$

Aug 26-9:25 AM



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