

January 20, 2016

#21)  $6x - 3 = 15$

$$\begin{array}{r} 6x - 3 = 15 \\ + 3 \quad + 3 \\ \hline 6x = 18 \\ \div 6 \quad \div 6 \\ \hline x = 3 \end{array}$$

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1.1 #33

All Rational Numbers are Integers. (F)

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#22)

Steps

① Let  $x = 0.\overline{384}$

②  $1000 \cdot x = 1000 \cdot 0.\overline{384} = 384.\overline{384}$

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

③  $1000x = 384.\overline{384}$

$$\begin{array}{r} 1000x = 384.\overline{384} \\ - x = 0.\overline{384} \\ \hline 999x = 384 \end{array}$$

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

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$\mathbb{Z} = \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$

$3 + (-3) = 0$

$53 + 0 = 53$  Adding Identity

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Additive Identity

$$a + 0 = a$$

Additive Inverse

$$a + (-a) = 0$$

$$13 + (-13) = 0$$

$$-\frac{3}{4} + \frac{3}{4} = 0$$

$$0.\overline{97} + (-0.\overline{97}) = 0$$

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Integer Addition

\* Same "Sign": add & keep sign!

$$+5 \oplus 7 = 12$$

$$-5 \oplus (-7) = -12$$

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