August 30, 2017

	$\mathbb{N}$	$\mathbb{W}$	$\mathbb{Z}$	$\mathbb{Q}$	$\mathbb{Q}'$	$\mathbb{R}$
$\sqrt{25}$	✓	✓	✓	✓	✗	✓
-0.001	✗	✗	✗	✓	✗	✓
$\frac{8}{31}$	✗	✗	✗	✓	✗	✓
-2	✗	✗	✓	✓	✗	✓

Aug 30-8:53 AM

$-0.\overline{27}$

Let $x = -0.\overline{27}$

$100x = -27.\overline{27}$

$x = -0.\overline{27}$

$99x = -27$

$\frac{99x}{99} = \frac{-27}{99}$

$x = -\frac{27}{99} = -\frac{9}{33}$

$= -\frac{3}{11}$

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$n, m, k \in \mathbb{N}$

$n = mk$

$15 = 5 \cdot 3$

$7 = 1 \cdot 7$

$p = 1 \cdot p$

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Real

$\mathbb{Q}$ $\mathbb{Q}'$

$\mathbb{Z}$

$\mathbb{W}$

$\mathbb{N}$

$\mathbb{Q} = \left\{ \frac{m}{n} \mid m, n \in \mathbb{Z}, n \neq 0 \right\}$

Aug 30-9:32 AM

7.648

$7\frac{648}{1000} = 7\frac{324}{500}$

$= 7\frac{162}{250}$

$= 7\frac{81}{125}$

Aug 30-9:35 AM

CORE 1.1

Additive Identity

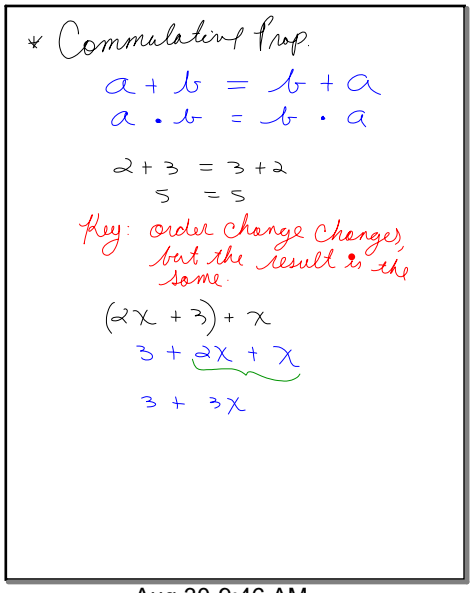
"0"

$5 + 0 = 5$

Additive Inverse

$5 + (-5) = 0$

Aug 30-9:38 AM


* Commulative Prop.
a + b = b + a
a • b = b • a
2 + 3 = 3 + 2
5 = 5
Key: order change changes, but the result is the same.
(2x + 3) + x
3 + 2x + x
3 + 3x

Aug 30-9:46 AM