

September 7, 2016

	N	W	Z	Q	Q'	R
$\sqrt{25}$	✓	✓	✓	✓		✓
-0.0001				✓		✓
$\frac{8}{0}$						
-2		✓		✓		✓
$5\overline{)36}$				✓		✓

Sep 7-8:56 AM

i $3x + 2(x-5) + 4x$

ii $3x + 2x - 10 + 4x$ Dist

iii $3x + 2x + 4x - 10$ Comm

iv $9x - 10$ assoc.

Sep 7-9:20 AM

$-2^4 = (-1) \cdot 2^4 = (-1) \cdot 2 \cdot 2 \cdot 2 \cdot 2$
 $= (-2) \cdot 2 \cdot 2 \cdot 2$
 $= (-4) \cdot 2 \cdot 2$
 $= -8 \cdot 2$
 $= -16$

$(-2)^4 = (-2) \cdot (-2) \cdot (-2) \cdot (-2)$
 $= 16$

Sep 7-9:23 AM

$100x = -27\sqrt{27}$
 $x = \frac{-27\sqrt{27}}{100}$
 $99x = -27$
 $x = \frac{-27}{99} = -\frac{3}{11}$

Sep 7-9:26 AM

CORC 1.2
 #59) $\frac{a^2 + b^2}{a + b}$ $a = 27, b = -30$

$\frac{(27)^2 + (-30)^2}{(27) + (-30)} = \frac{729 + 900}{-3}$
 $= \frac{1629}{-3}$
 $= -543$

Sep 7-9:33 AM

Fractions

* Fundamental Principle of Fractions

$\frac{a}{r} \cdot \frac{c}{c} = \frac{a \cdot c}{r \cdot c} = \frac{a}{r} \cdot 1 = \frac{a}{r}$

$a, b \in \mathbb{Z}$ and $b \neq 0$

Equivalent

(a) $\frac{5}{7} \cdot \frac{5}{5} = \frac{25}{35}$

(b) $\frac{28}{16} = \frac{2 \cdot 2 \cdot 2 \cdot 7}{2 \cdot 2 \cdot 2 \cdot 2} = 1 \cdot 1 \cdot \frac{7}{2} \cdot \frac{1}{2} = \frac{7}{4}$

Sep 7-9:36 AM