January 27, 2016

Multiplicative Identity

$$a \cdot 1 = a$$

Multiplicative Inverse

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

$$\frac{5}{1} \cdot \frac{1}{5} = \frac{5}{5} = 1$$

$$-\frac{3}{y} \cdot -\frac{y}{3} = \frac{3y}{y3} = 1$$

$$\frac{1}{2} \cdot \frac{2}{1} x = \frac{4}{1} \qquad 3x(3x) = 0$$

$$\frac{2}{2} x = \frac{4}{2}$$

$$1 \cdot x = 2$$

$$x = 2$$

$$\frac{-x}{-1} = \frac{2}{-1}$$

$$-\frac{1}{1} \cdot -\frac{1}{1} \, v = \frac{2}{1} \cdot -\frac{1}{1}$$

$$1 \cdot x = -2$$
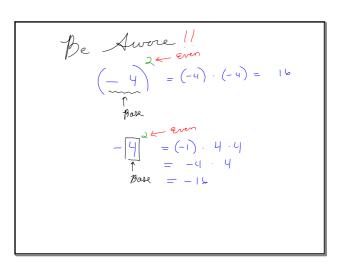
$$x = -2$$

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$$- a = (-1) \cdot a = - a$$

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Exponents

$$a^n \leftarrow \text{Exponent}$$

$\to$ n factors of a

base

$$5^3 = 5 \cdot 5 \cdot 5$$
$$= 25 \cdot 5$$
$$= 125$$

$$5^{103}$$

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Be Aware !!

$$(-4)^2 \leftarrow \text{even} = (-4) \cdot (-4) = 16$$

Base

$$-4^2 \leftarrow \text{even} = (-1) \cdot 4 \cdot 4$$
$$= -4 \cdot 4$$
Base $$= -16$$

Jan 27-10:45 AM

Do CORE 1.1

1 - # 36 m3

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