

August 22, 2016

Solving Equations

$x =$  stuff

Adding Inverse

$a + (-a) = 0$

$$\begin{array}{r|l} x & + 2 = 6 \\ +0 & -2 \quad -2 \\ \hline x & + 0 = 4 \\ & \boxed{x = 4} \end{array}$$

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Multiplying Inverse

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

$$\frac{2x}{2} = \frac{6}{2}$$

$$x = 3$$

$$\left(\frac{1}{2} \cdot \frac{2}{1}\right) \frac{x}{1} = \frac{6}{1}$$

$$\frac{2}{2} \cdot \frac{x}{1} = \frac{6}{1} \cdot \frac{1}{2}$$

①  $x = 3$

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$$\frac{4}{1} \left( y = \frac{3}{4}x - 5 \right)$$

$$4y = 3x - 20$$

$$-3x + 4y = -20 \text{ Standard Form}$$

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Distributing Prop (Solve)

$$a(b+c) = ab + ac$$

$$3(x-5) + 2 = 10$$

$$3x - 15 + 2 = 10$$

$$3x - 13 = 10$$

$$+13 \quad +13$$

$$\frac{3x}{3} = \frac{23}{3}$$

$$x = \frac{23}{3}$$

$$3\left(\frac{23}{3} - 5\right) + 2 = 10$$

$$3\left(\frac{23}{3} - \frac{15}{3}\right)$$

$$3\left(\frac{23-15}{3}\right) + 2 = 10$$

$$\frac{3}{1} \left(\frac{8}{3}\right) + 2 = 10$$

$$8 + \frac{2}{1} = \frac{10}{1}$$

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Order of Operations

- 1.) Clear Grouping Symbols  
( ), [ ], { },  $\frac{a}{b}$ ,  $\sqrt{a}$ ,  $|a|$
- 2.) Evaluate Exponents  
 $5^3 = 5 \cdot 5 \cdot 5 = 125$
- 3.) Do multiplication or Division, whichever comes first, from Left to Right.
- 4.) Do addition or subtraction, whichever comes first from L to R.

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Additive Identity

$$a + 0 = a$$

$$\sqrt{6} + 0 = \sqrt{6}$$

Multiplicative Identity

$$a \cdot 1 = a$$

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$$\begin{array}{r} 1.7 \\ \hline 1 \end{array}$$

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Reach 1.2 Redwoods

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