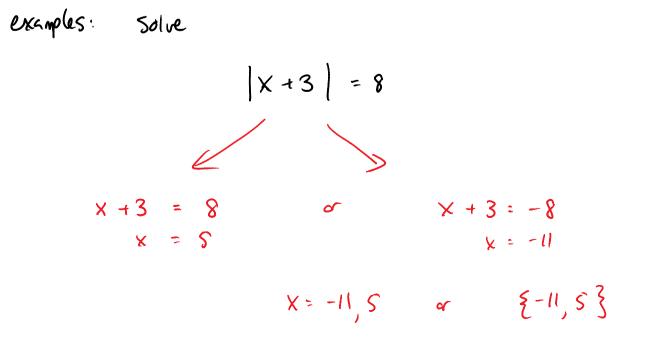
Section 2.6: Absolute Value Equations

Friday, October 11, 2013 9:43 AM

solve:
$$|X| = 7$$

 $X = -7 \text{ or } 7$
 $\xi \pm 73$
 $|X| = 0$
 $X = 0$
 $\xi = 03$



$$2|y-3|-11 = -1$$

 $3|y-3| = 10$
 $|y-3| = 10$
 $|y-3| = 5$
 $y-3 = 5$
 $y-3 = 5$
 $y = 8$
 $y = -2$
 $\{z-2, 8\}$

$$|7(x-6)| + 3 = 0$$

 $|7(x-6)| = -3$

 ϕ

$$|2x+5| = 0$$

$$dx = -5$$

$$x = -\frac{5}{2}$$

$$3 - \frac{1}{2} \begin{vmatrix} \frac{1}{2}x - 4 \\ \frac{1}{2}x - 4 \end{vmatrix} = 2$$

$$(-2) \left[-\frac{1}{2} \begin{vmatrix} \frac{1}{2}x - 4 \\ \frac{1}{2}x - 4 \end{vmatrix} = 2$$

$$(-3) \begin{vmatrix} \frac{1}{2}x - 4 \\ \frac{1}{2}x - 4 \end{vmatrix} = 2$$

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$$(-3)$$

$$|4x-1| = |x+8|$$

$$4x-1 = -(x+8)$$

$$4x-1 = -(x+8)$$

$$4x-1 = -(x+8)$$

$$4x-1 = -x-8$$

$$5x = -7$$

$$x = 3$$

$$x = -\frac{7}{5}$$

 $\left\{\begin{array}{c} -\frac{7}{5}, 3\right\}$

$$\begin{vmatrix} 0.3x + 5 \end{vmatrix} = \begin{vmatrix} 2 - 0.2x \end{vmatrix}$$

$$0.3x + 5 = 2 - 0.2x$$

$$0.3x + 5 = -(2 - 0.2x)$$

$$0.5x = -3$$

$$x = -6$$

$$0.3x + 5 = -2 + 0.2x$$

$$0.1x = -7$$

$$x = -70$$