(10) $|x-1| = 5x+10$

$x-1 = 5x+10$ OR $x-1 = -5x-10$

$-x \quad -x \qquad +5x \quad +5x$

$-1 = 4x+10 \qquad 6x-1 = -10$

$-10 \quad -10 \qquad +1 \quad +1$

$-11 = 4x \qquad 6x = -9$

$\frac{-11}{4} = \frac{4x}{4} \qquad x = -9/6$

$-11/4 = x \quad 3\frac{3}{4} =$ $\qquad x = -3/2$

34

$-|4-8b| = 12$

$-1 \qquad -1$

$|4-8b| = -12$

no solution

14

$3|4w-1| - 5 = 10$

$+5 \qquad +5$

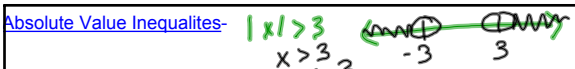
$\frac{3|4w-1|}{3} = \frac{15}{3}$

$|4w-1| = 5$

$4w-1 = 5$ OR $4w-1 = -5$

Absolute Value Inequalites- $|x| > 3$

$x > 3$ $\quad x < -3$



(5) $|3x+6| \geq 12$

☆ Greater than creates an "OR" probem "GREATOR"

$3x+6 \geq 12$ OR $3x+6 \leq -12$

$-6 \quad -6 \qquad -6 \quad -6$

$3x \geq 6 \qquad 3x \leq -18$

$x \geq 2$ OR $x \leq -6$

(6) Solve $3|2x+6| - 9 < 15$

$+9 \qquad +9$

$3|2x+6| < 24 \qquad |2x+6| < 8$

$2x+6 < 8$ AND $2x+6 > -8$

$-6 \quad -6 \qquad -6 \quad -6$

$2x < 2 \qquad 2x > -14$

$x < 1$ AND $x > -7$

☆ Less than creates a "sANDwich"

① $|y-3| \geq 12$

$y-3 \geq 12$ OR $y-3 \leq -12$

$y \geq 15$ OR $y \leq -9$

② $\frac{1}{4}|x-3| + 2 < 1$

$-2 \quad -2$

$4\left(\frac{1}{4}|x-3| < -1\right)$

$|x-3| < -4$

$x-3 < -4$ AND $x-3 > 4$

$x < -1$ AND $x > 7$

No Solution

complete 1.1 -1.5 packet