W-A1 Algebra 1 1/26

1.) $|3x| - 4 \leq 10$

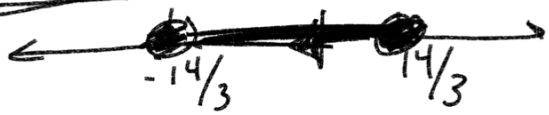
$+4 \quad +4$

$|3x| \leq 14$

$3x \leq 14 \quad 3x \geq -14$

$\frac{3x}{3} \leq \frac{14}{3} \quad \frac{3x}{3} \geq \frac{-14}{3}$

$x \leq \frac{14}{3} \quad x \geq -\frac{14}{3}$




2.) $|x + 4| - 6 > 12$

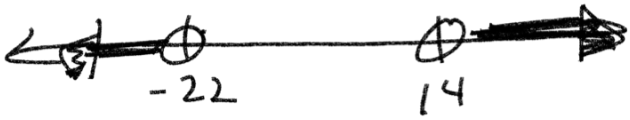
$+6 \quad +6$

$|x + 4| > 18$

$x + 4 > 18 \quad x + 4 < -18$

$-4 \quad -4 \quad -4 \quad -4$

$x > 14 \quad x < -22$



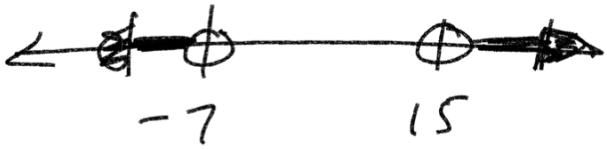

3.) $|2x - 8| - 2 > 20$

$+2 \quad +2$

$|2x - 8| > 22$

$2x - 8 > 22 \quad 2x - 8 < -22$

$+8 \quad +8 \quad +8 \quad +8$

$\frac{2x}{2} > \frac{30}{2} \quad \frac{2x}{2} < \frac{-14}{2}$

$x > 15 \quad x < -7$