Mall 418! Inequalities <, \lambda, \tau, \tau, \tau 2x 7/ 22 4+x<3-x 2x < 64<3 |X| = distance from X to $= \sqrt{X^2}$ 1x1 < 4

$$\left[\left(-4,4\right) \right)$$

Interval Notation: a < b (a)b) = {x | a<x<63 = all # between a and [a,b] = {x/a=x=b3 = all #15 between a and b, including a and b.

$$\frac{a}{\sqrt{a \cdot b}} = 3x | a < x \le b$$

= all #15 between a and b including b (but Not) $([a,b)] = \{x \mid a \le x < b \}$ = All #'s between a and b including a (by NOTS) One more thing...

X < 2 ar X > 10 $(-\infty,2)$ $(10,\infty)$ 3x+4 < 10 / Was Rules

$$-10 < 3x + 4 < 10$$

$$-14 < 3x < 6$$

$$-14 < x < 2$$

$$-14 < 3x < 2$$

$$-14 < 3x < 2$$

$$-14 < 3x < 2$$

$$10 < -5x < 20$$
 $-2 > x > -4$
 $-4 < x < -2$
 $(-4, -2)$

$$|-3x-4| > 8$$

$$-3x - 4 = -8 \quad \text{a} \quad -3x - 478$$

$$-3x = -4 \quad \text{a} \quad -3x = 12$$

$$x = -4$$

$$4 = 2 \quad \text{a} \quad x = -4$$

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(2) Solve
$$|2x+1|=5$$

(3) Solve $|4x-6| < 2$

Absolute Value Redux:
$$|X| = \begin{cases} \frac{1}{2} & \text{if } X < 0??\\ 1 & \text{if } X > 0? \end{cases}$$

$$P_{i} \text{ flerent } for \text{ different } Rules for \text{ mp.ts}$$

Rule Two Redux

$$|X| = \begin{cases} -x & \text{if } x > 0 \\ x & \text{if } x > 0 \end{cases}$$

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$$|x| = \begin{cases} -x & \text{if } x < 0 \\ x & \text{if } x > 0 \end{cases}$$

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$$|-x| = \begin{cases} -x & \text{if } x < 0 \\ x < -\# \end{cases}$$

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