SOLVING INEQUALITIES

$$A = \{-5, -3, 0, 2, 8\} \quad B = \{-2, -1, 0, 1, 2\}$$

$$A \text{ or } B \mid A \cup B = \{-5, -3, -2, -1, 0, 1, 2, 8\}$$

$$A \text{ and } B \mid A \cap B = \{0, 2\}$$

$$\text{intersection}$$

Interval Notation
$$X < 3$$
 $-3 < X \leq 8$

$$\leq , \geq \circ \quad [,] \qquad \text{answer}$$

$$<, > \circ (,) \qquad (-\infty, 3) \qquad (-3, 8]$$

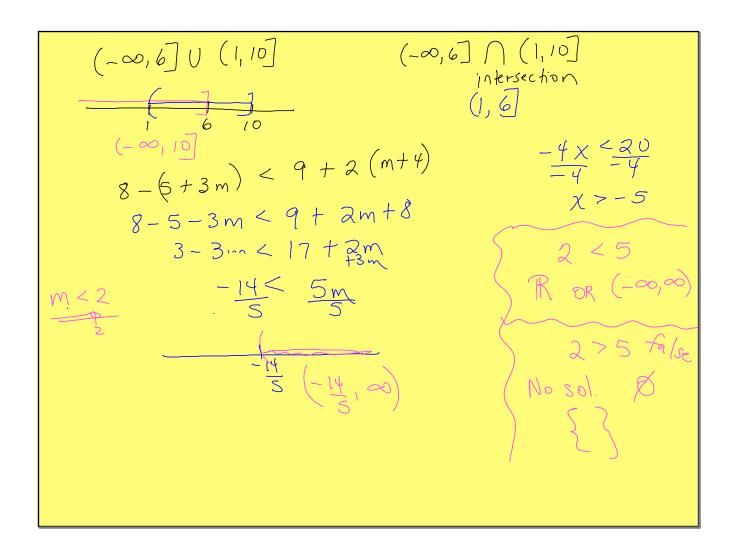
$$\chi < 3$$

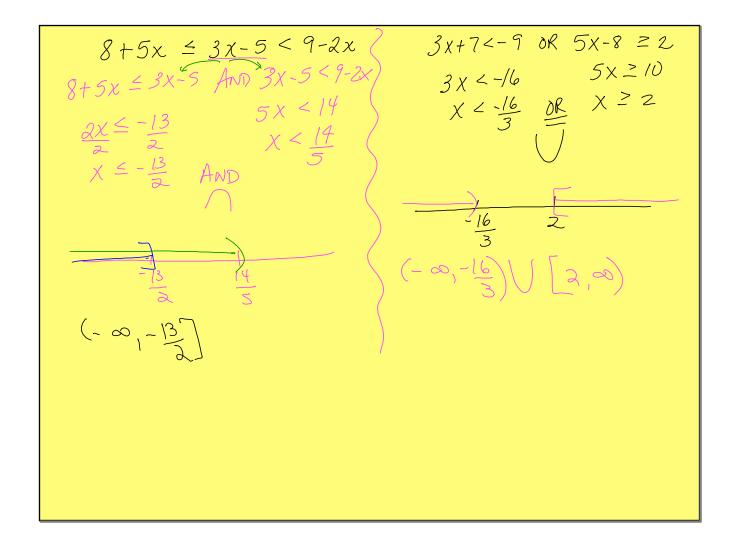
$$(-\infty, 3)$$

$$-3 < x \leq 8$$

$$-3 & 8$$

$$(-3, 8)$$





Domain (Allowable Values) - Set of ble possible
$$f(x) = \frac{4}{x-3}$$

$$x \neq 3$$

$$(-\infty, 3) \cup (3, \infty)$$
Rational Function (fraction)
$$\begin{array}{c} E \text{ Ven Root} = \sqrt{3} \\ - \text{ must contain values} \\ - \text{ Testing Points} \end{array}$$