ABSOLUTE VALUE EQUATIONS

$$|-5|=5$$
 + the distance from zero

 $|-5|=5$ + the distance

Abs. VALUE INEQUALITIES

$$|X| < 3$$
 $|X| \ge 2$

Less th AND

Abs. Value must be isolated first

 $4 |6x+2| + 20 > 12$
 $4 |6x+2| > -8$
 $4 |6x+2|$

MATRICES (Matrix Operations)

a rectangular array of numbers
enclosed in brackets

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$$\begin{bmatrix} 2 & 3 & -4 & 0 \\ 5 & -2 & 1 & 6 \end{bmatrix}$$

Dimensions:
Rows X Cols
 $2 & X & 4 \end{bmatrix}$

Not possible

$$\begin{bmatrix} 3 & -6 \\ 4 & 5 & -1 \end{bmatrix} + \begin{bmatrix} 8 & 0 \\ -9 & 3 \\ 5 & 7 \end{bmatrix} = \begin{bmatrix} 11 & -6 \\ -5 & 5 \\ 10 & 6 \end{bmatrix}$$
 $3 \begin{bmatrix} 2 & 6 \\ 5 & -1 \end{bmatrix} - \begin{bmatrix} 8 & 7 \\ 9 & -2 \end{bmatrix}$
 $= \begin{bmatrix} -2 & 11 \\ 6 & -1 \end{bmatrix}$