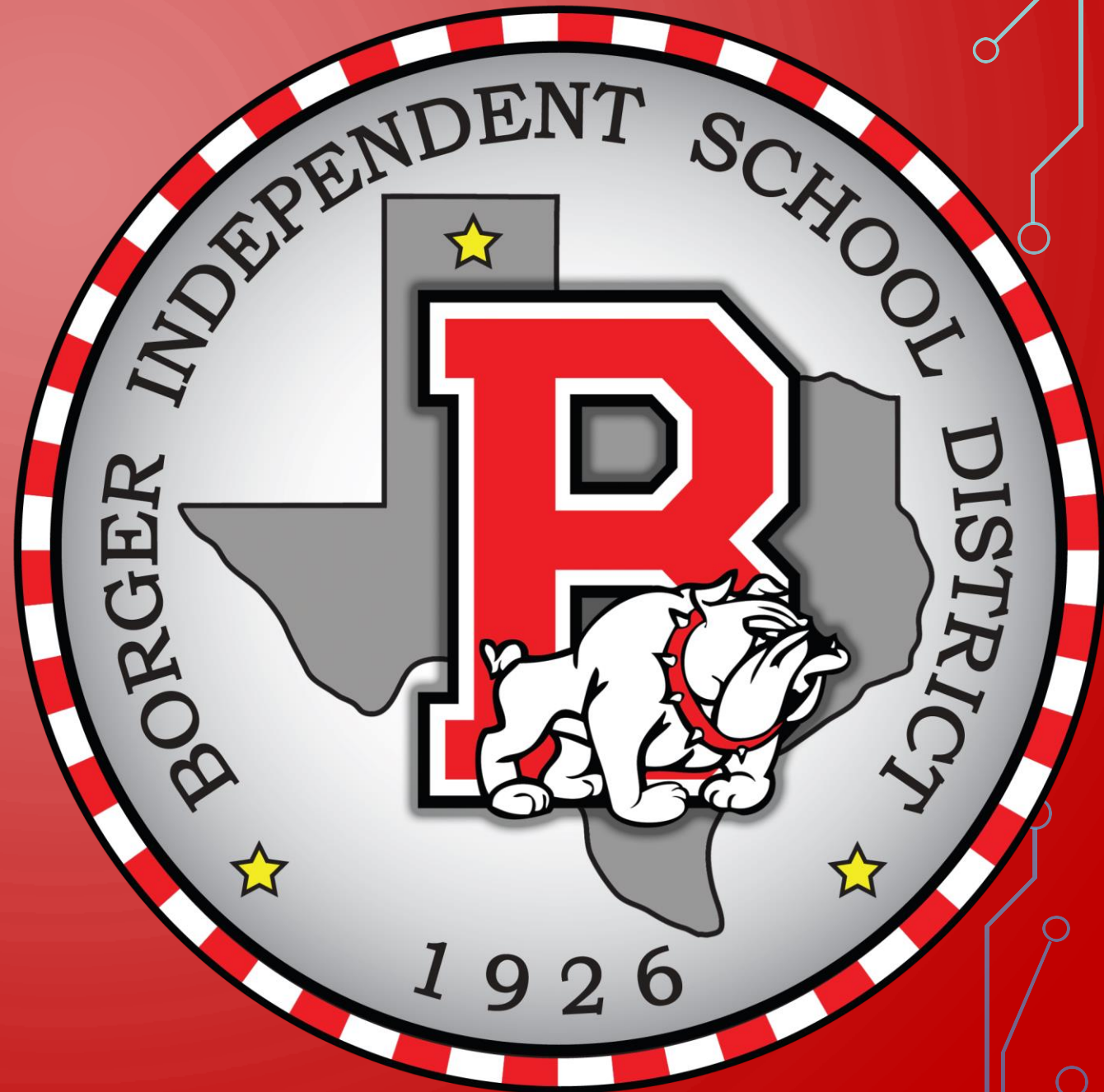
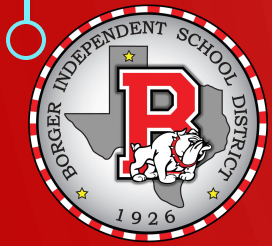


BOARD NOTES

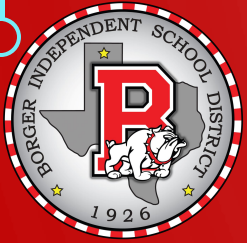
24 SEPTEMBER 2019





- 2A.6 (D) formulate absolute value linear equations;
- 2A.6 (E) solve absolute value linear equations;
- 2A.6 (F) solve absolute value linear inequalities;

We will be able to solve compound linear inequalities.



WHAT WE NEED:

- TI – 84
- Definitions:
 - Conjunction
 - Disjunction

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVING THE

- Compound Linear equation or inequality

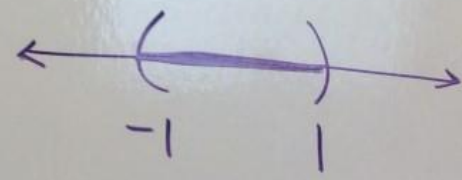
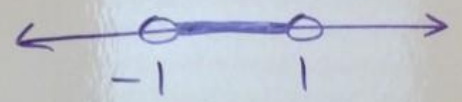


$$\begin{array}{ccc} 2 < -x + 3 < 4 \\ -3 & -3 & -3 \end{array}$$

$$\begin{array}{ccc} -1 < -x < 1 \\ \frac{-1}{-1} & \frac{-1}{-1} & \frac{1}{-1} \end{array}$$

$$1 > x > -1$$

$$-1 < x < 1$$





1.1 (E)
create and use
representations to
organize
record, and
communicate
mathematical ideas

1.1 (F)
analyze
mathematical
relationships to
connect
and communicate
mathematical ideas

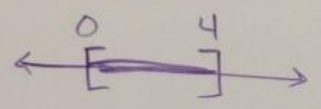
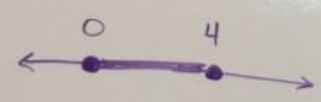
1.1 (G)
display, explain,
and justify
mathematical ideas
and arguments
using precise
mathematical
language in
written or oral
communication



$$-7 \leq \frac{3}{4}x - 7 \leq -4$$

$$0 \leq \frac{3}{4}x \leq 3$$

$$0 \leq x \leq 4$$



ADD 7 TO
EVERYTHING

MULTIPLY
EVERYTHING BY
 $\frac{4}{3}$

$$-4 \leq -(x-1) < 4$$

$$4 \geq x-1 > -4$$

$$-4 < x-1 \leq 4$$

$$-3 < x \leq 5$$



MULT BY -1
OR
DIVIDE BY -1

REWRITE
INEQUALITY

ADD 1



$$\begin{array}{l} \text{SUB } 7 \\ x + 7 < 4 \quad \text{or} \quad 7 - x < 1 \\ x < -3 \quad \quad \quad -x < -6 \quad \text{SUB } 7 \\ \quad \quad \quad \quad \quad \quad x > 6 \quad \text{DIV } -1 \end{array}$$

