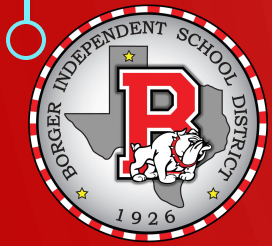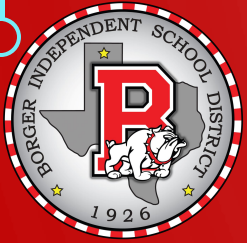# BOARD NOTES

30 SEPTEMBER 2019

2A.3 (G) determine possible solutions in the solution set of systems of two or more linear inequalities in two variables.
2A.4 (H) solve quadratic inequalities.
2A.6 (F) solve absolute value linear inequalities;

We will be able to solve linear inequalities in two variables.

WHAT WE NEED:

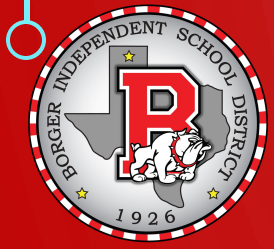- TI – 84

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVING THE

- Linear function

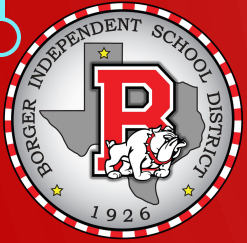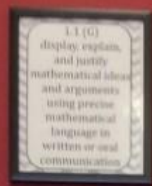$$3x + 2y \geq 2$$

$$(0, 0) \qquad (2, -1) \qquad (-2, 4)$$

$$(0,0)$$

$$3x + 2y \geq 2$$

$$3(0) + 2(0) = 0 + 0 = 0 \ngeq 2$$

NOT IN SOLN SET

$(2,-1)$

$3x + 2y \geq 2$

$3(2) + 2(-1) = 6 - 2 = 4 \geq 2$

In soln set

$(-2, 4)$

$3x + 2y \geq 2$

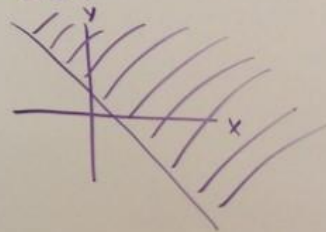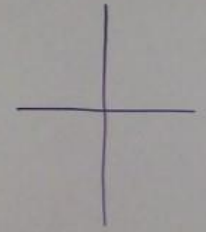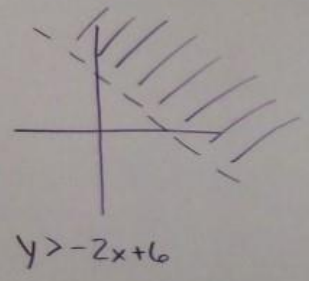$3(-2) + 2(4) = -6 + 8 = 2 \geq 2$

In soln set

$3x + 2y \geq 2$

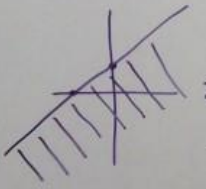$2y \geq -3x + 2$

$y \geq -\frac{3}{2}x + 1$

$y > -2x + 6$

$3x - 2y > 8$
$-2y > -3x + 8$
$y < \frac{3}{2}x - 4$

$2x - 3y \geq -6$
$-3y \geq -2x - 6$
$y \leq \frac{2}{3}x + 2$

$x \geq -3$