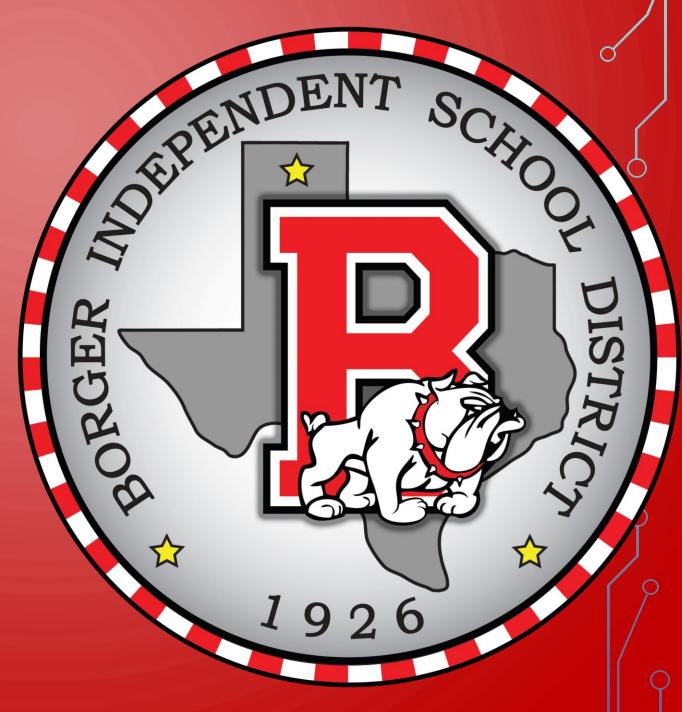
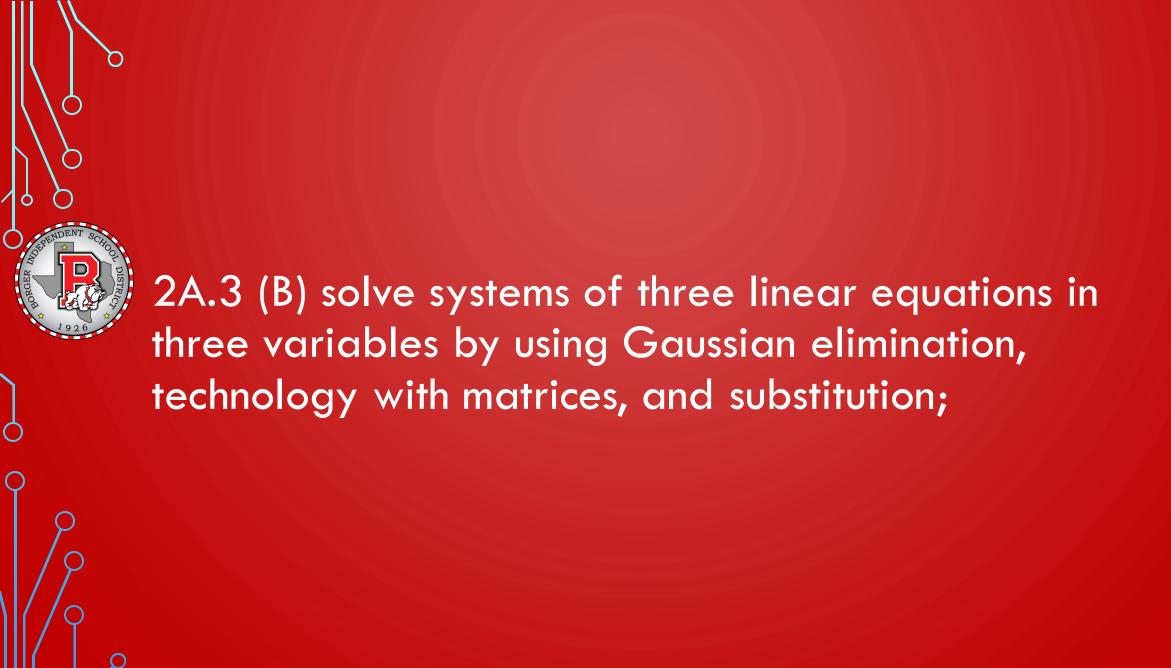
BOARD NOTES

7 JANUARY 2020





We will be able to calculate the solution for a system of equations using inverse matrices.



WHAT WE NEED:

- TI-84
- Definition:
 - Consistent
 - Inconsistent
- Solve for a variable

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVEN THE

Matrix



The second constitution for property of the constitution of the co	- We work to be a single of the second of th
-	THE RESIDENCE



A X
$$\begin{bmatrix}
4 & 3 \\
3 & -1
\end{bmatrix}
\begin{bmatrix}
x \\
y
\end{bmatrix} = \begin{bmatrix}
-4 \\
-3
\end{bmatrix}$$

$$\begin{cases}
4x + 3y = -4 \\
3x - y = -3
\end{cases}$$

$$x = \begin{bmatrix}
-\frac{4}{3} & -1 \\
\frac{1}{3} & -1
\end{bmatrix}$$

$$x = \frac{13}{13} = -1$$

$$y = \frac{13}{13} = 0$$

$$y = \frac{13}{13} = 0$$











$$\frac{5}{2}(\frac{2}{5}x) = (6)\frac{5}{2}$$

 $x = 15$

$$A'AX = A'B$$

 $X = A'B$

A⁻¹
1)
$$|A| = (4X-1)-(3)(3)$$

$$= -13$$
2) $\frac{1}{-13}\begin{bmatrix} -1 & -3 \\ -3 & 4 \end{bmatrix} = \begin{bmatrix} \frac{1}{13} & \frac{3}{13} \\ \frac{3}{13} & -\frac{1}{13} \end{bmatrix}$

$$X = A^{-1}B$$

$$= \begin{bmatrix} 1 & 3 & 3 & -1 \\ 13 & 3 & 2 & 2 \\ -13 & 2 & 3$$





