

17 DECEMBER 2019

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 \mathbf{a}

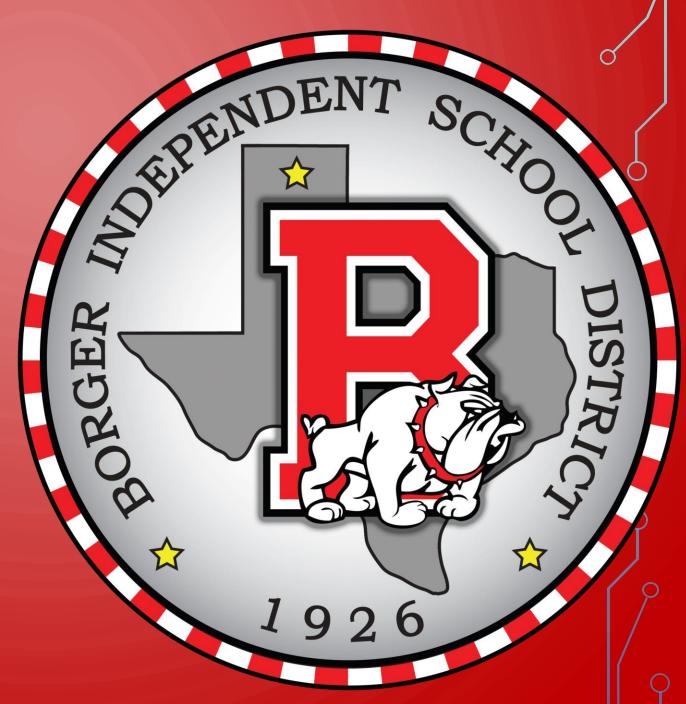
Q

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B

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2A.3 (B) solve systems of three linear equations in three variables by using Gaussian elimination, technology with matrices, and substitution;



We will be able to calculate the solution for a system of equations using Gaussian elimination.

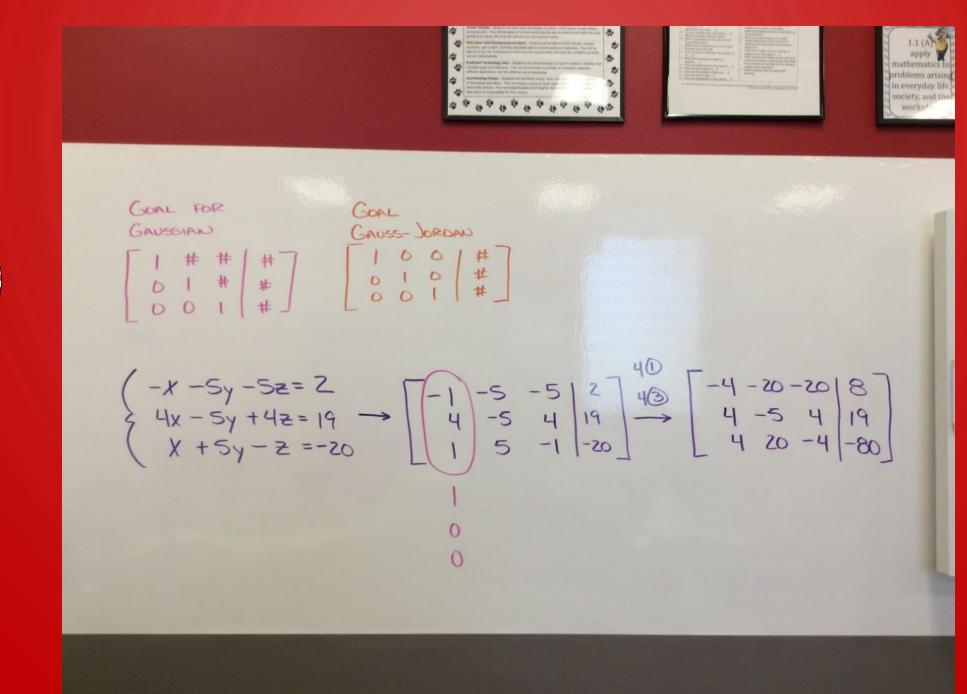


WHAT WE NEED:

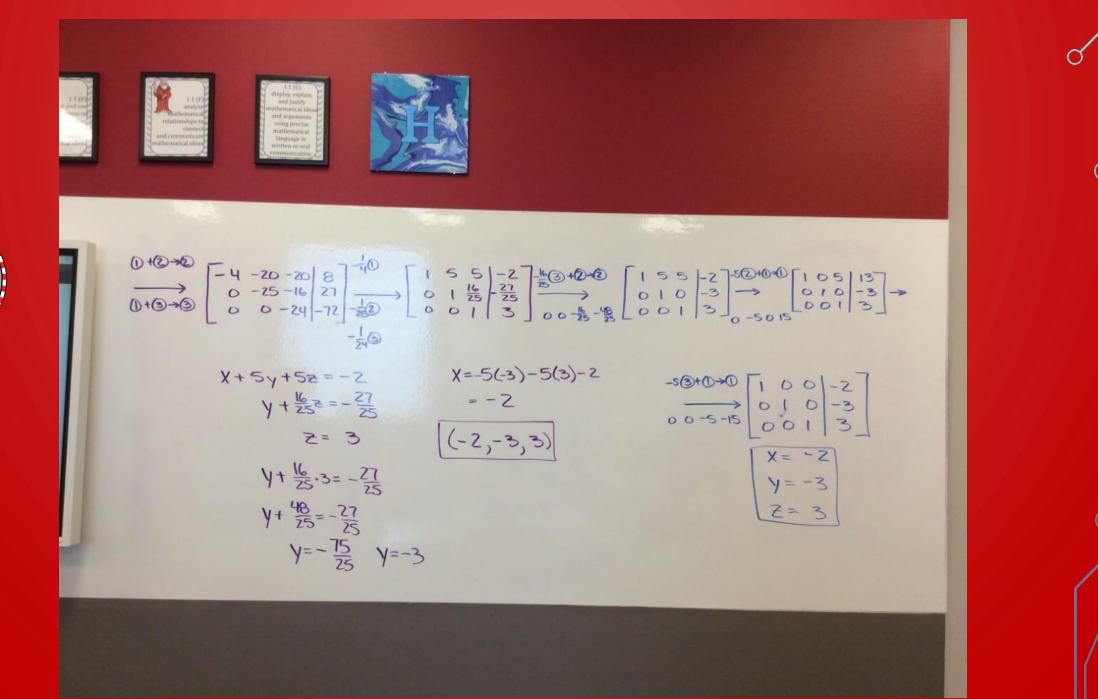
- TI-84
- Definition:
 - Consistent
 - Inconsistent
- Solve for a variable

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVEN THE

• Matrix



THE PART SCHOOL DISTRCS





 $\begin{pmatrix} -X-5y-5z=2\\ 4x-5y+4z=19\\ x+5y-z=-20 \end{pmatrix}$ GAUSS-* GAUSSIAN $\begin{bmatrix} -1 & -5 & -5 & | z \\ 4 & -5 & 4 & | 9 \\ 1 & 5 & -1 & | -20 \end{bmatrix} \xrightarrow{3} X - \frac{5}{4} Y + z = \frac{19}{4}$ $Y + \frac{16}{25} z = -\frac{27}{25}$ I) 2=3 $z) \begin{bmatrix} 1 & -5 & 1 & | & 19 \\ 0 & 1 & 4 & | & 19 \\ 0 & 1 & 4 & | & 19 \\ 0 & 1 & 4 & | & 19 \\ -27 & -27 & -27 \\ -27 & -27$ 4) (-2,-3,3)

