

$$\left[ \begin{array}{ccc|c} 2 & 3 & -2 & 6 \\ 0 & 0 & 3 & -6 \\ 1 & 0 & 2 & 3 \end{array} \right] \xrightarrow{R_1 \leftrightarrow R_3} \left[ \begin{array}{ccc|c} 1 & 0 & 2 & 3 \\ 0 & 0 & 3 & -6 \\ 2 & 3 & -2 & 6 \end{array} \right] \xrightarrow{\frac{1}{3}R_2} \left[ \begin{array}{ccc|c} 1 & 0 & 2 & 3 \\ 0 & 0 & 1 & -2 \\ 2 & 3 & -2 & 6 \end{array} \right] \xrightarrow{R_2 \leftrightarrow R_3}$$

$$\left[ \begin{array}{ccc} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{array} \right]$$

**Example**

Solve for  $\vec{x}$

$$\left[ \begin{array}{ccc|c} 1 & 0 & 2 & 3 \\ 2 & 3 & -2 & 6 \\ 0 & 0 & 1 & -2 \end{array} \right] \xrightarrow{R_1 + R_2} \left[ \begin{array}{ccc|c} 1 & 0 & 2 & 3 \\ 3 & 3 & 0 & 9 \\ 0 & 0 & 1 & -2 \end{array} \right] \xrightarrow{-2R_3 + R_1}$$

$$\left[ \begin{array}{ccc|c} 1 & 0 & 0 & 7 \\ 3 & 3 & 0 & 9 \\ 0 & 0 & 1 & -2 \end{array} \right] \xrightarrow{\frac{1}{3}R_2} \left[ \begin{array}{ccc|c} 1 & 0 & 0 & 7 \\ 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & -2 \end{array} \right]$$

$$\begin{bmatrix} 2 & 3 & -2 \\ 0 & 0 & 3 \\ 1 & 0 & 2 \end{bmatrix} \begin{Bmatrix} x_1 \\ x_2 \\ x_3 \end{Bmatrix} = \begin{Bmatrix} 6 \\ -6 \\ 3 \end{Bmatrix}$$



# Basic Linear Algebra

**G Thomas**



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