

Welcome to



## Matrices & Determinants

$$\begin{aligned}2x + 5y + 3z &= -3 \\4x + 0y + 8z &= 0 \\1x + 3y + 0z &= 2\end{aligned}$$

$$\begin{matrix} & \overbrace{\begin{bmatrix} 2 & 5 & 3 \\ 4 & 0 & 8 \\ 1 & 3 & 0 \end{bmatrix}}^A & \overbrace{\begin{bmatrix} x \\ y \\ z \end{bmatrix}}^{\vec{x}} & = & \overbrace{\begin{bmatrix} -3 \\ 0 \\ 2 \end{bmatrix}}^{\vec{v}} \end{matrix}$$

$$A^{-1}A = I$$