

Section 3.6

Cramer's Rule

Minors and Cofactors

Co factor Expansions of Determinants

Row and Column Properties for $n \geq 3$

$$\begin{vmatrix} 2 & 1 & 0 \\ 1 & 2 & 1 \\ 0 & 1 & 2 \end{vmatrix}$$

$$\begin{vmatrix} 2 & 0 & 0 & -3 \\ 0 & 1 & 11 & 12 \\ 0 & 0 & 5 & 13 \\ -4 & 0 & 0 & 7 \end{vmatrix}$$

$$5x + 8y = 3$$

$$8x + 13y = 15$$

$$5x_1 + 4x_2 - 2x_3 = 4$$

$$2x_1 + 3x_3 = 2$$

$$2x_1 - x_2 + x_3 = 1$$

$$A = \begin{bmatrix} 2 & 0 & 3 \\ -5 & -4 & 2 \\ 2 & -1 & 1 \end{bmatrix}$$