#### 5.3 Determinants and Cramer's Rule

#### Unique Solution of a 2 × 2 System

The 2 × 2 systems

(1) 
$$cx + by = \epsilon,$$

$$cx + dy = f.$$

has a unique solution provided  $\Delta := ad - bc$  is nonzero, in which case the solution is given by

$$z = \frac{ds - bf}{ad - bc}, \quad y = \frac{af - ac}{ad - bc}.$$

This result, called Craeser's Rule for 2 × 2 systems, is tenuity hermed in college algebra as part of determinant theory.

#### Determinants of Order 2

College algebra introduces matrix notation and determinant notation:

$$A = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$
,  $con(A) = \begin{vmatrix} a & b \\ c & d \end{vmatrix}$ .

Evaluation of a 2 × 2 determinant is by Sarras' Rule:

$$\begin{vmatrix} \mathbf{a} & \mathbf{b} \\ \mathbf{c} & \mathbf{d} \end{vmatrix} = \mathbf{n}\mathbf{d} - \mathbf{b}\mathbf{c}.$$

The boldface product ad is the product of the main diagonal entries and the other product to is from the anti-diagonal.

Cramer's 2 x 2 rule in determinant notation is

$$x = \begin{bmatrix} x & b \\ f & d \\ c & d \end{bmatrix}, \quad y = \begin{bmatrix} a & c \\ c & f \\ c & d \end{bmatrix}.$$

#### Unique Solution of an n × n System

Cramer's rule can be generalized to an  $n\times n$  system of equations AR=K or

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