$$2x + 3y = 5$$
 © $6x + 15y = 12$ ②

Matrix Brm.

$$\begin{bmatrix} 12 & 3 \\ 6 & 15 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 5 \\ 12 \end{bmatrix}$$

elimination

$$\rho_1 \sim \rho_1 \sim \rho_2 \sim \rho_1 \sim \rho_2 \sim \rho_2 \sim \rho_1 \sim \rho_2 \sim \rho_2$$

 $A = \begin{bmatrix} 2 & 3 \\ -D & 4 = \end{bmatrix}$

16 15]

Back Inbshhhi $U \times = C$ Following the xare

procedure to hard C $V \times 3 \downarrow 2 \uparrow row$ $V \times 3 \downarrow 3 \uparrow row$

 $\frac{2x + 3y - 5}{2x + 3(-1/2)^{25}}$ $x = \frac{3}{4}$

$$\begin{bmatrix} 2 & 3 \\ 6 & 15 \end{bmatrix} \begin{bmatrix} (3/4) \\ -1/2 \end{bmatrix} \stackrel{=}{=} \begin{bmatrix} 5 \\ 12 \end{bmatrix}$$

$$6(13/4) + 15(-1/2) = 78-30 = 12$$

Problem 22

[2.3 #29. Inhoduction to hiveer Algebra: Strang]

Find the thought matrix & that reduces "Pakal's matrix to a smaller Pascal.

Which Matrix II (multplygy several E's) reduces Paral all pe way.

E.M.I .M.E. uverse Martine