SYSTEMS of EQ Review

- 1) Memu- 3-3-1-3
- 2) a) Substitution Isolati a Variable. Sub into other eq.
 - b) Elimination
 - C) Cramer's Rule

$$3x - 5y = 22$$

$$4x + 2y = 12$$

$$\frac{\partial y}{\partial x} = \frac{12}{2} - \frac{4x}{2}$$

y= 6-2x

$$\frac{13x = 52}{13}$$

$$3x - 5y = 2x$$

$$4x + 2y = 12$$

$$X = \frac{\begin{vmatrix} 2x - 5 \\ 1x 2 \end{vmatrix}}{\begin{vmatrix} 3 - 5 \\ 4 2 \end{vmatrix}} = \frac{44 + 460}{6 + 120} = \frac{104}{20} = 4$$

$$X = \frac{\begin{vmatrix} 3 - 5 \\ 4 \end{vmatrix}}{\begin{vmatrix} 3 - 5 \\ 4 \end{vmatrix}} = \frac{\begin{vmatrix} 3 - 5 \\ 4 \end{vmatrix}}{\begin{vmatrix} 3 - 5 \\ 4 \end{vmatrix}}$$

$$3x - 5y = 22$$

$$4x + 2y = 12$$

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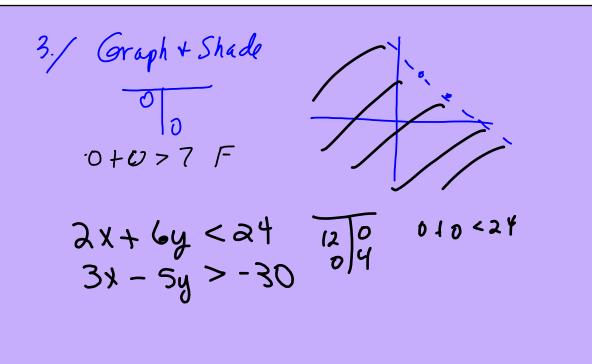
$$4x + 3y = 5$$

$$= \frac{1}{3} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 22 \\ 12 \end{bmatrix} \cdot \begin{bmatrix} 23 \\ 24 \end{bmatrix}$$

$$= \frac{1}{3} \begin{bmatrix} 44 + 60 \\ -88 + 36 \end{bmatrix}$$

$$= \begin{bmatrix} 104 \\ 26 \end{bmatrix} \begin{bmatrix} 104 \\ -52 \end{bmatrix}$$

$$= \begin{bmatrix} 4 \\ -24 \end{bmatrix}$$



Elimination

-1 - 3x + y + z = -2

$$2x + 4y + z = 4$$
 $x + 3y + 2z = 12$

- $2x + 4y + z = 4$
 $x + 3y + 2z = 12$

- $2x + 4y + z = 4$
 $- x + 3y = 6$

(a) $3(-3) + 3(1) + 2z = 12$
- $2x + 3y + 2z = 12$
- $2x + 3y + 2z = 12$
- $2x + 3y + 2z = 12$
- $3x - 3y = 4$

- $2x + 3(1) = 6$
- $2x + 3 = 6$
- $2x - 3y = 4$
- $2x - 3y$

$$G(b) \text{ Cramer's Rule}$$

$$y = \frac{\begin{vmatrix} 2 & 4 & 6 \\ 3 & 17 & 2 \\ -1 & 25 & 4 \end{vmatrix}}{\begin{vmatrix} 2 & 06 \\ -1 & 2 & 4 \end{vmatrix}} = \frac{2 \begin{vmatrix} 4 - 2 \\ -2 & 4 \end{vmatrix}}{2 \begin{vmatrix} 1 & 4 \\ -1 & 4 \end{vmatrix}} + \frac{6 \begin{vmatrix} 3 & 4 \\ -1 & 2 \end{vmatrix}}{2 \begin{vmatrix} 1 & 4 \\ -1 & 4 \end{vmatrix}}$$

$$Calculator$$

$$det(\begin{bmatrix} 2 & 3 \\ -1 & 2 & 4 \end{vmatrix})$$

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