

GRAPHING

$$8x + 20y = -200$$

 $860x - 55y = -49,550$

Menu >> 3: Graph/Entry Edit - Menu- 3-3-1-3 to change to Standard Form. Use Monu-Analyze Graph-Intersect

Elimnation

$$3[2x-5y=-22]$$

$$2[3x+4y=13]$$

$$3x + 9(4) = 13$$

$$3x + 16 = 13$$

$$3x=-3$$

$$3[2x-5y=-22] \qquad 6k-15y=-66$$

$$2[3x+4y=13] \qquad +-6x-8y=-26$$

$$\frac{-23y = -92}{-23}$$

$$6x - 8y = 22$$

 $-6x + 8y = 40$
 $0 = 62$

$$6x - 8y = 22$$

- $6x + 8y = -22$
 $0 = 0$

infinitely many Solutions

SUBSTITUTION - Solve for variable with smallest coefficient.

$$2x - 5y = -22 \Rightarrow 2x = 5y - 22$$
 $3x + 4y = 13$
 $x = 5y - 22$

3x + 4y = 13

 $x = 5y - 11$

2) Substitute that quantity into the quantity into the $x = 5y - 11$
 $x = 5y - 22$
 $y = 5y - 11$
 $y = 5$

Determinant — a square array of numbers inclosed between Vertical lines

$$\begin{vmatrix} 2-5 \\ 3 \times 8 \end{vmatrix} = 16 + 15 \\ = 31 \end{vmatrix} - \text{Solution is a single numerical Value}$$

$$\begin{vmatrix} a b \\ c d \end{vmatrix} = ad - bc$$

$$\begin{vmatrix} x & y \\ -22 & 5 \\ 2 & 4 \end{vmatrix} = -23$$

$$\begin{vmatrix} x & y \\ -22 & 5 \\ 3 & 4 \end{vmatrix} = -23$$

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