

Student Name: _____

Score: _____

Determinants – Cramer's Rule

ES2

Solve the following system of equations using Cramer's rule:

$4x - 5y = -7$

$2x + 3y = 13$

$\Delta =$

$\Delta x =$ $\Delta y =$

$x =$

$4x + 3y = 14$

$-5x + 2y = -6$

$\Delta =$

$\Delta x =$ $\Delta y =$

$y =$

$-9x + 2y = 25$

$8x - 5y = -19$

$\Delta =$

$\Delta x =$

$x =$

$y =$

$y =$

$4x - 3y = 1$

$9x - 7y = 1$

$\Delta =$

$\Delta x =$ $\Delta y =$

$x =$ $y =$

$\Delta =$

$\Delta x =$ $\Delta y =$

$x =$ $y =$

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Answer key

Determinants – Cramer's Rule

ES2

$$4x - 5y = -7$$

$$2x + 3y = 13$$

$$\Delta = 22$$

$$\Delta x = 44; \Delta y = 66$$

$$x = \frac{\Delta x}{\Delta} = 2; y = \frac{\Delta y}{\Delta} = 3$$

$$4x + 3y = 14$$

$$-5x + 2y = -6$$

$$\Delta = 23$$

$$\Delta x = 46; \Delta y = 46$$

$$x = \frac{\Delta x}{\Delta} = 2; y = \frac{\Delta y}{\Delta} = 2$$

$$-9x + 2y = 25$$

$$8x - 5y = -19$$

$$\Delta = 29$$

$$\Delta x = -87; \Delta y = -87$$

$$x = \frac{\Delta x}{\Delta} = -3; y = \frac{\Delta y}{\Delta} = -3$$

$$4x - 3y = 1$$

$$9x - 7y = 1$$

$$\Delta = -1$$

$$\Delta x = -4; \Delta y = -5$$

$$x = \frac{\Delta x}{\Delta} = 4; y = \frac{\Delta y}{\Delta} = 5$$

$$\Delta = -12$$

$$\Delta x = -48; \Delta y = 72$$

$$x = \frac{\Delta x}{\Delta} = 4; y = \frac{\Delta y}{\Delta} = -6$$

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