

Student Name: _____

Score: _____

Determinants – Cramer's Rule

Sheet 2

Identify the number of solutions using Cramer's rule:

$3x - 4y = 5$

$8x + 3y = 7$

$\Delta =$

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

Number of Solutions: _____

$2x + 3y = 5$

$5x + 6y = 12$

$\Delta =$

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

Number of Solutions: _____

$8x - 3y = 4$

$-5x + 7y = 12$

$\Delta =$

$\Delta x =$

Number of Solutions: _____

$4x + 3y = 5$

$8x + 6y = 7$

$\Delta =$

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

Number of Solutions: _____

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

Number of Solutions: _____

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Answer key

Determinants – Cramer’s Rule

Sheet 2

$$\begin{aligned} 3x - 4y &= 5 \\ 8x + 3y &= 7 \end{aligned}$$

$$\begin{aligned} \Delta &= 41 \neq 0 \\ \Delta x &= 43; \Delta y = -19 \end{aligned}$$

Number of Solutions : Unique

$$\begin{aligned} 2x + 3y &= 5 \\ 5x + 6y &= 12 \end{aligned}$$

$$\begin{aligned} \Delta &= -3 \neq 0 \\ \Delta x &= -6; \Delta y = -1 \end{aligned}$$

Number of Solutions : Unique

$$\begin{aligned} 8x - 3y &= 4 \\ -5x + 7y &= 12 \end{aligned}$$

$$\begin{aligned} \Delta &= 41 \neq 0 \\ \Delta x &= 64; \Delta y = 11 \end{aligned}$$

Number of Solutions : Infinite

$$\begin{aligned} 4x + 3y &= 5 \\ 8x + 6y &= 7 \end{aligned}$$

$$\begin{aligned} \Delta &= 0 \\ \Delta x &= 9 \neq 0; \Delta y = 31 \neq 0 \end{aligned}$$

Number of Solutions : None

Number of Solutions : None

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