

Student Name: _____

Score: _____

Determinants – Cramer’s Rule

Sheet 2

Identify the number of solutions using Cramer’s rule:

$3x - 4y = 5$

$8x + 3y = 7$

$\Delta =$

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

$2x + 3y = 5$

$5x + 6y = 12$

$\Delta =$

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

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: _____

Number of Solutions: _____

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Answer key

Determinants – Cramer’s Rule

Sheet 2

3x - 4y = 5
8x + 3y = 7

2x + 3y = 5
5x + 6y = 12

$\Delta = 41 \neq 0$
 $\Delta x = 43; \Delta y = -19$
Number of Solutions: Unique

$\Delta = -3 \neq 0$
 $\Delta x = -6; \Delta y = -1$
Number of Solutions: Unique

8x - 3y = 4
-5x + 7y = 12

$\Delta = 41 \neq 0$
 $\Delta x = 64; \Delta y = 1$
Number of Solutions: Infinite

4x + 3y = 5
8x + 6y = 7

$\Delta = 0$
 $\Delta x = 9 \neq 0; \Delta y = 1 \neq 0$
Number of Solutions: None

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Unique

Infinite

$1 \neq 0$

NUMBER OF SOLUTIONS: None