Determinants – Cramer's Rule

Three Variables: ES3

Identify the solutions using Cramer's rule:

$7x + 4y + 2z = -4$
$6x + 2y - 3z = -3$
$4x + 3y + 5z = -4$

$\Delta =$ ☐ $\Delta x =$ ☐ $\Delta y =$ ☐ $\Delta z =$ ☐

$x =$ ☐ $y =$ ☐ $z =$ ☐

$2x + 2y - 7z = 12$
$4x - 3y + 8z = 15$
$7x + 4y - 3z = 14$

$\Delta z =$ ☐

$z =$ ☐

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$-2x + 2y + 3z = -7$
$-x + 4y + 7z = 8$
$-4x + 5y + z = -17$

$\Delta z =$ ☐

$z =$ ☐

$-x - 2y + 5z = 16$
$7x + 5y - 2z = -1$
$4x + 3y + z = 3$

$\Delta =$ ☐ $\Delta x =$ ☐ $\Delta y =$ ☐ $\Delta z =$ ☐

$x =$ ☐ $y =$ ☐ $z =$ ☐

Score:

Determinants – Cramer's Rule

Three Variables: ES3

$\Delta = -15$
$\Delta x = 30; \Delta y = -45; \Delta z = 15$
$x = \dfrac{\Delta x}{\Delta} = -2; y = \dfrac{\Delta y}{\Delta} = 3; z = \dfrac{\Delta z}{\Delta} = -1$

$\Delta = -169$
$\Delta x = -676; \Delta y = 845$
$x = \dfrac{\Delta x}{\Delta} = 4; y = \dfrac{\Delta y}{\Delta} =$

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$\Delta = 41$
$\Delta x = 287; \Delta y = 82; \Delta$
$x = \dfrac{\Delta x}{\Delta} = 7; y = \dfrac{\Delta y}{\Delta} =$

$\Delta = 24$
$\Delta x = 96; \Delta y = -120; \Delta z = 48$
$x = \dfrac{\Delta x}{\Delta} = 4; y = \dfrac{\Delta y}{\Delta} = -5; z = \dfrac{\Delta z}{\Delta} = 2$