Matrices

Name:_____ Date:_____

Cramer's Rules

1

$2x + 3y - z = 1$

$4x + y - 3z = 11$

$3x - 2y + 5z = 21$

_____

2

$-5x + 9y - 2z = 19$

$6x - 2y + 4z = -22$

$-2x - 6y - 3z = -21$

_____

3

$-6x + 2y + 4z = 12$

$8x - 3y + 2z = -14$

$-6x + 2y - 7z = -21$

_____

4

$9x - 3y + 6z = -18$

$-6x + 5y - 3z = 12$

$-5x + 4y - z = 10$

_____

5

$-2x - 12y + 7z = -6$

$-9x + 8y - 2z = -4$

$-3x - 8y + 5z = -2$

_____

6

$x - 4y + z = 1$

$2x + 3y - z = 4$

$x + y - z = 0$

_____

7

$x - y + z = 4$

$2x + y + z = 7$

$-x - 2y + 2z = -1$

_____

8

$x + 2y + 3z = -5$

$3x + y - 3z = 4$

$-3x + 4y + 7z = -7$

_____

9

$2x - 3y + 6z = -18$

$-6x + 5y - 3z = 12$

$-5x + 4y - z = 10$

_____

10

$4x - y + 3z = 2$

$x + 5y - 2z = 3$

$3x + 2y + 4z = 6$

_____

Matrices

Name:_____ Date:_____

Cramer's Rules

1

$2x + 3y - z = 1$
$4x + y - 3z = 11$
$3x - 2y + 5z = 21$

(4, -2, 1)

2

$-5x + 9y - 2z = 19$
$6x - 2y + 4z = -22$
$-2x - 6y - 3z = -21$

(-48, -11, 61)

3

$-6x + 2y + 4z = 12$
$8x - 3y + 2z = -14$
$-6x + 2y - 7z = -21$

(20, 60, 3)

4

$9x - 3y + 6z = -18$
$-6x + 5y - 3z = 12$
$-5x + 4y - z = 10$

(-2, 0, 0)

5

$-2x - 12y + 7z = -6$
$-9x + 8y - 2z = -4$
$-3x - 8y + 5z = -2$

(-8, -18, -34)

6

$x - 4y + z = 1$
$2x + 3y - z = 4$
$x + y - z = 0$

(2, 1, 3)

7

$x - y + z = 4$
$2x + y + z = 7$
$-x - 2y + 2z = -1$

(3, 0, 1)

8

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

(-1, 1, -2)

9

$2x - 3y + 6z = -18$
$-6x + 5y - 3z = 12$
$-5x + 4y - z = 10$

(12, 18, 2)

10

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

(0, 1, 1)