Matrices

Name:_____ Date:_____

Cramer's Rules

1

$2x + 10y + 15z = 15$

$7x + 5y + 5z = 35$

$5x + 4y + 2z = 20$

_____

2

$12x + 16y + 18z = 34$

$16x + 10y + 18z = 36$

$16x + 14y + 20z = 14$

_____

3

$14x + 12y + 16z = 34$

$18x + 10y + 16z = 36$

$20x + 14y + 20z = 14$

_____

4

$16x + y + 12z = 34$

$14x + 8y + 6z = 24$

$12x + 14y + z = 18$

_____

5

$10x + 3y + 2z = 30$

$x + 15y + 3z = 45$

$x + 12y + 2z = 24$

_____

6

$11x + 4y + 2z = 22$

$4x + 12y + 2z = 24$

$16x + 4y + 2z = 32$

_____

7

$12x + 6y + 8z = 34$

$6x + 10y + 8z = 36$

$16x + 4y + 6z = 14$

_____

8

$12x + 3y + 6z = 36$

$6x + 2y + 14z = 28$

$15x + y + 2z = 30$

_____

9

$x + 10y + 5z = 15$

$15x + 2y + 2z = 30$

$5x + 2y + 2z = 10$

_____

10

$6x + 12y + 8z = 50$

$2x + 6y + 16z = 24$

$x + 11y + 3z = 33$

_____

Matrices

Name:_____ Date:_____

Cramer's Rules

1

$2x + 10y + 15z = 15$
$7x + 5y + 5z = 35$
$5x + 4y + 2z = 20$

$\left(\frac{50}{9}, \frac{-28}{9}, \frac{7}{3}\right)$

2

$12x + 16y + 18z = 34$
$16x + 10y + 18z = 36$
$16x + 14y + 20z = 14$

$(-169, -113, 215)$

3

$14x + 12y + 16z = 34$
$18x + 10y + 16z = 36$
$20x + 14y + 20z = 14$

$(-59, -119, 143)$

4

$16x + y + 12z = 34$
$14x + 8y + 6z = 24$
$12x + 14y + z = 18$

$\left(\frac{-14}{3}, \frac{14}{3}, \frac{26}{3}\right)$

5

$10x + 3y + 2z = 30$
$x + 15y + 3z = 45$
$x + 12y + 2z = 24$

$\left(-2, \frac{-8}{3}, 29\right)$

6

$11x + 4y + 2z = 22$
$4x + 12y + 2z = 24$
$16x + 4y + 2z = 32$

$(2, 2, -4)$

7

$12x + 6y + 8z = 34$
$6x + 10y + 8z = 36$
$16x + 4y + 6z = 14$

$\left(\frac{-9}{5}, \frac{-11}{5}, \frac{43}{5}\right)$

8

$12x + 3y + 6z = 36$
$6x + 2y + 14z = 28$
$15x + y + 2z = 30$

$\left(\frac{18}{11}, 4, \frac{8}{11}\right)$

9

$x + 10y + 5z = 15$
$15x + 2y + 2z = 30$
$5x + 2y + 2z = 10$

$\left(2, \frac{13}{5}, \frac{-13}{5}\right)$

10

$6x + 12y + 8z = 50$
$2x + 6y + 16z = 24$
$x + 11y + 3z = 33$

$\left(\frac{19}{7}, \frac{19}{7}, \frac{1}{7}\right)$