

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Cramers Rule with System of 3 Equations

Use Cramers Rule to solve each system.

1)  $-2x + 5y + 5z = -36$

$$x + 7y + 7z = -82$$

$$3x + 3y + 3z = -48$$

2)  $9x + 7y - 8z = 237$

$$-8x - 5y - 3z = -101$$

$$-8x - 8y - 8z = -72$$

3)  $4x + 8y - z = -106$

$$5x + 4y + z = -65$$

$$-7x - 7y - 7z = 70$$

4)  $4x - y - 6z = 103$

$$-9x + 8y - 4z = -97$$

$$-3x - 3y - 3z = 24$$

5)  $2x - 3y - 3z = -36$

$$3x - 6y - 6z = -66$$

$$-6x - 6y - 6z = -12$$

6)  $-6x + 6y + 6z = 12$

$$2x - y - z = -60$$

$$-5x - 5y - 5z = 30$$

7)  $2x - 2y + z = 36$

$$-6x + 4y + 3z = -36$$

$$8x + 8y + 8z = -16$$

8)  $2x + 7y - z = 22$

$$8x - y - 8z = 29$$

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

9)  $-5x + 7y + 9z = -119$

$$-9x - y + 4z = -88$$

$$-6x - 6y - 6z = 18$$

10)  $-3x - 7y - 3z = 84$

$$-9x + 7y - 9z = 0$$

$$3x + 3y + 3z = -48$$

11)  $8x + 9y + 2z = 160$

$$-6x - 4y + z = -65$$

$$-x - y - z = -27$$

12)  $-8x - 7y - 2z = -57$

$$5x + 9y + 8z = 25$$

$$-2x - 2y - 2z = -8$$



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Use Cramers Rule to solve each system.

1)  $-2x + 5y + 5z = -36$   
 $x + 7y + 7z = -82$   
 $3x + 3y + 3z = -48$   
No Solution

2)  $9x + 7y - 8z = 237$   
 $-8x - 5y - 3z = -101$   
 $-8x - 8y - 8z = -72$   
( 12 , 7 , -10 )

3)  $4x + 8y - z = -106$   
 $5x + 4y + z = -65$   
 $-7x - 7y - 7z = 70$   
( -7 , -9 , 6 )

4)  $4x - y - 6z = 103$   
 $-9x + 8y - 4z = -97$   
 $-3x - 3y - 3z = 24$   
( 9 , -7 , -10 )

5)  $2x - 3y - 3z = -36$   
 $3x - 6y - 6z = -66$   
 $-6x - 6y - 6z = -12$   
Infinitely  
Many Solutions

6)  $-6x + 6y + 6z = 12$   
 $2x - y - z = -60$   
 $-5x - 5y - 5z = 30$   
No Solution

7)  $2x - 2y + z = 36$   
 $-6x + 4y + 3z = -36$   
 $8x + 8y + 8z = -16$   
( 2 , -12 , 8 )

8)  $2x + 7y - z = 22$   
 $8x - y - 8z = 29$   
 $x + y + z = -7$   
( -3 , 3 , -7 )

9)  $-5x + 7y + 9z = -119$   
 $-9x - y + 4z = -88$   
 $-6x - 6y - 6z = 18$   
( 7 , -3 , -7 )

10)  $-3x - 7y - 3z = 84$   
 $-9x + 7y - 9z = 0$   
 $3x + 3y + 3z = -48$   
Infinitely  
Many Solutions

11)  $8x + 9y + 2z = 160$   
 $-6x - 4y + z = -65$   
 $-x - y - z = -27$   
( 6 , 10 , 11 )

12)  $-8x - 7y - 2z = -57$   
 $5x + 9y + 8z = 25$   
 $-2x - 2y - 2z = -8$   
( 4 , 5 , -5 )

