



## Three-Variables Linear Equations ( $ax+by+cz=d$ )

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

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

1.  $5x - 1y + 2z = 15$   
 $1x + 3y - 3z = -8$   
 $2x - 3y + 4z = 18$

2.  $3x - 1y - 6z = 14$   
 $4x + 6y - 6z = 28$   
 $2x - 4y + 2z = 12$

3.  $5x + 4y - 6z = 30$   
 $2x - 6y - 2z = -18$   
 $3x + 2y + 4z = 24$

4.  $3x - 6y + 6z = 48$   
 $1x + 4y + 4z = 42$   
 $2x + 2y - 5z = -19$

5.  $2x - 2y + 3z = 8$   
 $4x + 6y + 5z = 84$   
 $3x + 2y + 1z = 40$

6.  $3x + 4y + 1z = 34$   
 $3x - 6y - 5z = -2$   
 $6x - 4y - 2z = 28$



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

1.  $5x - 1y + 2z = 15$   
 $1x + 3y - 3z = -8$   
 $2x - 3y + 4z = 18$

$x = 1$   
 $y = 4$   
 $z = 7$

2.  $3x - 1y - 6z = 14$   
 $4x + 6y - 6z = 28$   
 $2x - 4y + 2z = 12$

$x = 7$   
 $y = 1$   
 $z = 1$

3.  $5x + 4y - 6z = 30$   
 $2x - 6y - 2z = -18$   
 $3x + 2y + 4z = 24$

$x = 4$   
 $y = 4$   
 $z = 1$

4.  $3x - 6y + 6z = 48$   
 $1x + 4y + 4z = 42$   
 $2x + 2y - 5z = -19$

$x = 6$   
 $y = 2$   
 $z = 7$

5.  $2x - 2y + 3z = 8$   
 $4x + 6y + 5z = 84$   
 $3x + 2y + 1z = 40$

$x = 8$   
 $y = 7$   
 $z = 2$

6.  $3x + 4y + 1z = 34$   
 $3x - 6y - 5z = -2$   
 $6x - 4y - 2z = 28$

$x = 7$   
 $y = 3$   
 $z = 1$