



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

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

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

1. 
$$3x - 4y + 3z = -7$$
$$2x + 3y + 4z = 47$$
$$6x - 1y - 4z = -25$$

2. 
$$3x - 6y + 4z = 2$$
$$1x - 3y + 2z = -3$$
$$5x - 5y - 6z = -25$$

3. 
$$1x + 6y + 1z = 55$$
$$3x + 5y - 2z = 31$$
$$1x + 5y - 1z = 35$$

4. 
$$1x + 3y - 2z = 25$$
$$4x + 6y + 3z = 85$$
$$2x + 4y + 2z = 52$$

5. 
$$2x + 2y + 2z = 24$$
$$3x + 3y - 6z = 9$$
$$3x - 4y + 4z = 32$$

6. 
$$2x - 6y + 6z = -18$$
$$3x - 5y - 6z = -55$$
$$2x - 1y - 5z = -22$$



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

1.  $3x - 4y + 3z = -7$   
 $2x + 3y + 4z = 47$   
 $6x - 1y - 4z = -25$

$x = 1$   
 $y = 7$   
 $z = 6$

2.  $3x - 6y + 4z = 2$   
 $1x - 3y + 2z = -3$   
 $5x - 5y - 6z = -25$

$x = 8$   
 $y = 7$   
 $z = 5$

3.  $1x + 6y + 1z = 55$   
 $3x + 5y - 2z = 31$   
 $1x + 5y - 1z = 35$

$x = 1$   
 $y = 8$   
 $z = 6$

4.  $1x + 3y - 2z = 25$   
 $4x + 6y + 3z = 85$   
 $2x + 4y + 2z = 52$

$x = 7$   
 $y = 8$   
 $z = 3$

5.  $2x + 2y + 2z = 24$   
 $3x + 3y - 6z = 9$   
 $3x - 4y + 4z = 32$

$x = 8$   
 $y = 1$   
 $z = 3$

6.  $2x - 6y + 6z = -18$   
 $3x - 5y - 6z = -55$   
 $2x - 1y - 5z = -22$

$x = 3$   
 $y = 8$   
 $z = 4$