



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

Name: _____

Date: _____ Score: _____

1. $1x + 1y - 3z = -17$
 $5x - 6y - 3z = -34$
 $4x - 1y + 6z = 43$

2. $3x + 2y + 1z = 15$
 $6x - 4y - 2z = -18$
 $4x + 5y - 1z = 27$

3. $6x - 2y - 5z = -10$
 $3x + 4y - 3z = 24$
 $3x + 3y - 3z = 18$

4. $3x - 2y + 3z = 14$
 $1x - 6y - 2z = -15$
 $4x - 5y + 5z = 17$

5. $5x - 5y - 3z = 1$
 $6x + 3y - 4z = 54$
 $1x - 1y + 2z = 8$

6. $4x - 2y + 4z = 28$
 $5x + 1y + 5z = 63$
 $1x + 2y - 6z = -15$



Name: _____

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1. $1x + 1y - 3z = -17$
 $5x - 6y - 3z = -34$
 $4x - 1y + 6z = 43$

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

2. $3x + 2y + 1z = 15$
 $6x - 4y - 2z = -18$
 $4x + 5y - 1z = 27$

$$x = 1$$
$$y = 5$$
$$z = 2$$

3. $6x - 2y - 5z = -10$
 $3x + 4y - 3z = 24$
 $3x + 3y - 3z = 18$

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

4. $3x - 2y + 3z = 14$
 $1x - 6y - 2z = -15$
 $4x - 5y + 5z = 17$

$$x = 3$$
$$y = 2$$
$$z = 3$$

5. $5x - 5y - 3z = 1$
 $6x + 3y - 4z = 54$
 $1x - 1y + 2z = 8$

$$x = 8$$
$$y = 6$$
$$z = 3$$

6. $4x - 2y + 4z = 28$
 $5x + 1y + 5z = 63$
 $1x + 2y - 6z = -15$

$$x = 5$$
$$y = 8$$
$$z = 6$$