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

Name: _____ Date: _____ Score: _____

1. $2x + 3y + 1z = 27$
$6x + 1y + 4z = 18$
$2x - 2y - 6z = -20$

2. $1x - 2y + 4z = 26$
$2x + 4y + 6z = 70$
$1x - 4y - 3z = -31$

3. $5x - 5y + 4z = 41$
$5x - 4y - 2z = 18$
$3x + 3y + 1z = 25$

4. $1x - 3y + 5z = 27$
$3x + 6y - 6z = 18$
$5x - 4y - 5z = -28$

5. $2x + 5y + 4z = 49$
$6x + 5y + 3z = 74$
$1x - 5y + 4z = 31$

6. $3x + 2y - 5z = 10$
$1x + 1y - 3z = -2$
$6x + 6y + 4z = 120$

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

Name: _____ Date: _____ Score: _____

1. $2x + 3y + 1z = 27$
$6x + 1y + 4z = 18$
$2x - 2y - 6z = -20$

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

2. $1x - 2y + 4z = 26$
$2x + 4y + 6z = 70$
$1x - 4y - 3z = -31$

$x = 6$
$y = 4$
$z = 7$

3. $5x - 5y + 4z = 41$
$5x - 4y - 2z = 18$
$3x + 3y + 1z = 25$

$x = 6$
$y = 1$
$z = 4$

4. $1x - 3y + 5z = 27$
$3x + 6y - 6z = 18$
$5x - 4y - 5z = -28$

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

5. $2x + 5y + 4z = 49$
$6x + 5y + 3z = 74$
$1x - 5y + 4z = 31$

$x = 8$
$y = 1$
$z = 7$

6. $3x + 2y - 5z = 10$
$1x + 1y - 3z = -2$
$6x + 6y + 4z = 120$

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