Lernsys

NAME: _____ DATE: _____

TEACHER: _____

Algebra 2 Cramer's Rule 3x3 One Solution Practice Exercise (4)

Use Cramers Rule to solve each system.

1) x - 2y - 9z = 54
4x + 4y + 4z = -24
5x - 6y + 3z = -122

2) - 5x - 4y - 9z = 100
3x + 3y + 3z = -39
9x + y + 7z = -91

3) 5x - 6y + 7z = -27
- x - y - z = 20
8x + y - 6z = -83

4) 8x - y + 2z = -70
- 3x - 3y - 3z = 15
- 4x + 9y + 3z = 75

5) 6x + 8y - 9z = -144
- 5x - 5y - 5z = 60
9x + 3y + z = -104

6) 3x + 6y - 8z = -14
7x + 7y + 7z = -105
8x + 2y - 3z = -17

7) - x - 9y - 7z = -154
5x + 5y + 5z = 50
6x - 4y - 6z = -174

8) - 6x + y + 5z = 18
6x + 6y + 6z = 72
- 4x + 3y - 2z = -66

9) 7x + 4y - z = 43
7x + 7y + 7z = -7
3x + 7y + 4z = 27

10) - x - 2y + 7z = 26
- 4x - 4y - 4z = 36
6x + 7y + 4z = -59

11) - 3x - 2y + 9z = 72
- 4x - 4y - 4z = -104
- 7x - 9y - 3z = -146

12) 6x + 8y + 8z = -50
- 4x - 4y - 4z = 36
- 9x + 5y - 8z = 187

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Algebra 2 Cramer's Rule 3x3 One Solution Practice Exercise (4)

Use Cramers Rule to solve each system.

1) $x - 2y - 9z = 54$
$4x + 4y + 4z = -24$
$5x - 6y + 3z = -122$
(-7 , 10 , -9)

2) $-5x - 4y - 9z = 100$
$3x + 3y + 3z = -39$
$9x + y + 7z = -91$
(-3 , -1 , -9)

3) $5x - 6y + 7z = -27$
$-x - y - z = 20$
$8x + y - 6z = -83$
(-11 , -7 , -2)

4) $8x - y + 2z = -70$
$-3x - 3y - 3z = 15$
$-4x + 9y + 3z = 75$
(-6 , 8 , -7)

5) $6x + 8y - 9z = -144$
$-5x - 5y - 5z = 60$
$9x + 3y + z = -104$
(-10 , -6 , 4)

6) $3x + 6y - 8z = -14$
$7x + 7y + 7z = -105$
$8x + 2y - 3z = -17$
(-2 , -8 , -5)

7) $-x - 9y - 7z = -154$
$5x + 5y + 5z = 50$
$6x - 4y - 6z = -174$
(-11 , 9 , 12)

8) $-6x + y + 5z = 18$
$6x + 6y + 6z = 72$
$-4x + 3y - 2z = -66$
(6 , -6 , 12)

9) $7x + 4y - z = 43$
$7x + 7y + 7z = -7$
$3x + 7y + 4z = 27$
(-1 , 10 , -10)

10) $-x - 2y + 7z = 26$
$-4x - 4y - 4z = 36$
$6x + 7y + 4z = -59$
(-10 , -1 , 2)

11) $-3x - 2y + 9z = 72$
$-4x - 4y - 4z = -104$
$-7x - 9y - 3z = -146$
(8 , 6 , 12)

12) $6x + 8y + 8z = -50$
$-4x - 4y - 4z = 36$
$-9x + 5y - 8z = 187$
(-11 , 8 , -6)

