

Math Worksheets

Three Variables System of Equations

 Solve each system of equations.

1) $x = 3y - 3z + 8$ $x = \underline{\quad}$ 2) $6x - 6y = -12$ $x = \underline{\quad}$

$z = 4x + 5y - 14$ $y = \underline{\quad}$ $2z = -6x - 6y + 18$ $y = \underline{\quad}$

$3y + 2z = 14$ $z = \underline{\quad}$ $-8x + 10y + 2z = 16$ $z = \underline{\quad}$

3) $4x - 8z = 40$ $x = \underline{\quad}$ 4) $2x - 4y + 2z = -12$ $x = \underline{\quad}$

$-6x + 2y - 8z = 40$ $y = \underline{\quad}$ $2x + 10z = -24$ $y = \underline{\quad}$

$-8x + 4y + 6z = -30$ $z = \underline{\quad}$ $-2x + 12y + 8z = 6$ $z = \underline{\quad}$

5) $x - y - 2z = -6$ $x = \underline{\quad}$ 6) $6x - y + 3z = -9$ $x = \underline{\quad}$

$3x + 2y = -25$ $y = \underline{\quad}$ $5x + 5y - 5z = 20$ $y = \underline{\quad}$

$-4x + y - z = 12$ $z = \underline{\quad}$ $3x - y + 4z = -5$ $z = \underline{\quad}$

7) $-5x + 3y + 6z = 4$ $x = \underline{\quad}$ 8) $-6x + 5y + 2z = -11$ $x = \underline{\quad}$

$-3x + y + 5z = -5$ $y = \underline{\quad}$ $-2x + y + 4z = -9$ $y = \underline{\quad}$

$-4x + 2y + z = 13$ $z = \underline{\quad}$ $4x - 5y + 5z = -4$ $z = \underline{\quad}$

9) $4x + 4y + z = 24$ $x = \underline{\quad}$ 10) $-10x + 10y + 6z = -46$ $x = \underline{\quad}$

$2x - 4y + z = 0$ $y = \underline{\quad}$ $-10x + 6y - 6z = -22$ $y = \underline{\quad}$

$5x - 4y - 5z = 12$ $z = \underline{\quad}$ $-12x + 12z = -24$ $z = \underline{\quad}$

Answers of Worksheets

Three variable System of equations

1) $(2, 2, 4)$

2) $(1, 3, -3)$

3) $(0, 0, -5)$

4) $(3, 3, -3)$

5) $(-5, -5, 3)$

6) $(-1, 6, 1)$

7) $(-2, 4, -3)$

8) $(4, 3, -1)$

9) $(4, 2, 0)$

10) $(1, -3, -1)$