

Homework: Systems of Linear Equations in Three Variables

In Problems 1-6, solve each system.

1. $x + 2y - z = -3$ $3x - y + 4z = 19$ $5x + 3y - 2z = 1$	2. $x + y - 4z = 12$ $7x - 2y + z = 26$ $3x + 4y - 5z = 22$
3. $2x - y - z = 14$ $3x + 2y - z = 24$ $6x + y + 3z = 40$	4. $3x + y + z = -4$ $4x - 2y - 5z = -21$ $x - y - z = -4$
5. $y - z = 3$ $3x - 4y + 2z = -8$ $-x - 2y - z = 0$	6. $7x - y + 2z = 3$ $4x + 3y - z = -7$ $5x - y - 3z = 12$
7. $2x + 4y - z = 5$ $7x - y - 2z = 3$ $8x + 3y + z = -8$	