

Chapter 1

Systems of Linear Equations

1.1 Solutions and Elementary Operations

1. (a)
$$\begin{array}{rclcl} 2(19t - 35) & + & 3(25 - 13t) & + & t & = & 5 \\ 5(19t - 35) & + & 7(25 - 13t) & - & 4t & = & 0 \end{array}$$
 (b)
$$\begin{array}{rclclcl} 2(2s + 12t + 13) & + & 5s & + & 9(-s - 3t - 3) & + & 3t & = & -1 \\ (2s + 12t + 13) & + & 2s & + & 4(-s - 3t - 3) & & & = & 1 \end{array}$$
2. (a) $x = t, y = 2 - 3t; x = \frac{2}{5} - \frac{t}{5}, y = t$
 (b) $x = t, y = \frac{1}{3}(1 - 2t); x = \frac{1}{2}(1 - 3s), y = s$
 (c) $x = s, y = 3s + 2t - 5, z = t; x = s, y = t, z = \frac{5}{2} - \frac{3s}{2} + \frac{t}{2}$
 (d) $x = 1 + 2s - 5t, y = s, z = t; x = q, y = p, z = \frac{1}{6}(1 - p + 2q)$
3. $x = 5/2, y = t.$
4. $x = \frac{1}{3}(2s + 3), y = s, z = t.$
5. (a) $x = t$ (and $b = 0$) (b) $x = b/a$
6. These are given in 5.
7. (a) $\left(\begin{array}{cc|c} 1 & -3 & 5 \\ 2 & 1 & 1 \end{array} \right)$ (b) $\left(\begin{array}{cc|c} 1 & 2 & 0 \\ 0 & 1 & 1 \end{array} \right)$ (c) $\left(\begin{array}{ccc|c} 1 & -1 & 1 & 2 \\ 1 & 0 & -1 & 1 \\ 2 & 1 & 0 & 0 \end{array} \right)$
 (d) $\left(\begin{array}{ccc|c} 1 & 1 & 0 & 1 \\ 0 & 1 & 1 & 0 \\ -1 & 0 & 1 & 2 \end{array} \right)$
8. (a)
$$\begin{array}{rclcl} x & -y & +6z & = & 0 \\ & y & & = & 3 \\ 2x & -y & & = & 1 \end{array}$$
 (b)
$$\begin{array}{rclcl} 2x & -y & & = & -1 \\ -3x & +2y & +z & = & 0 \\ & y & +z & = & 3 \end{array}$$
9. (a) $x = -2, y = -1$ (b) $x = -3, y = 2$
 (c) $x = 10, y = -7$ (d) $x = -17, y = 13$
10. (a) $x = \frac{5}{3}, y = -\frac{4}{3}, z = -\frac{2}{3}$ (b) $x = \frac{1}{9}, y = \frac{10}{9}, z = -\frac{7}{9}$

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