

8. The three lines do not intersect in a common point (see figure). This system has no solution.



The augmented matrix of the system is

$$\left[ \begin{array}{cc|c} 1 & -1 & 3 \\ 1 & 1 & 1 \\ 2 & 3 & 6 \end{array} \right]$$

and the reduced row echelon form of this matrix (details omitted) is:

$$\left[ \begin{array}{cc|c} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{array} \right]$$

The last row corresponds to the equation  $0 = 1$ , so the system is inconsistent.

9. (a) The solution set of the equation  $7x - 5y = 3$  can be described parametrically by (for example) solving the equation for  $x$  in terms of  $y$  and then making  $y$  into a parameter. This leads to  $x = \frac{2y+3}{7}$ ,  $y = t$ , where  $-\infty < t < \infty$ .
- (b) The solution set of  $3x_1 - 5x_2 + 4x_3 = 7$  can be described by solving the equation for  $x_1$  in terms of  $x_2$  and  $x_3$ , then making  $x_2$  and  $x_3$  into parameters. This leads to  $x_1 = \frac{7+5x_2-4x_3}{3}$ ,  $x_2 = s$ ,  $x_3 = t$ , where  $-\infty < s, t < \infty$ .
- (c) The solution set of  $-8x_1 + 2x_2 - 5x_3 + 6x_4 = 1$  can be described by (for example) solving the equation for  $x_2$  in terms of  $x_1$ ,  $x_3$ , and  $x_4$ , then making  $x_1$ ,  $x_3$ , and  $x_4$  into parameters. This leads to  $x_1 = r$ ,  $x_2 = \frac{1+8r+5x_3-6x_4}{2}$ ,  $x_3 = s$ ,  $x_4 = t$ , where  $-\infty < r, s, t < \infty$ .
- (d) The solution set of  $3v - 8w + 2x - y + 4z = 0$  can be described by (for example) solving the equation for  $y$  in terms of the other variables, and then making those variables into parameters. This leads to  $v = t_1$ ,  $w = t_2$ ,  $x = t_3$ ,  $y = 3t_1 - 8t_2 + 2t_3 + 4t_4$ ,  $z = t_4$ , where  $-\infty < t_1, t_2, t_3, t_4 < \infty$ .
10. (a)  $x = 2 - 10t$ ,  $y = t$ , where  $-\infty < t < \infty$ .
- (b)  $x_1 = 3 - 3s + 12t$ ,  $x_2 = s$ ,  $x_3 = t$ , where  $-\infty < s, t < \infty$ .
- (c)  $x_1 = r$ ,  $x_2 = s$ ,  $x_3 = t$ ,  $x_4 = 20 - 4r - 2s - 3t$ , where  $-\infty < r, s, t < \infty$ .
- (d)  $v = t_1$ ,  $w = t_2$ ,  $x = -t_1 - t_2 + 5t_3 - 7t_4$ ,  $y = t_3$ ,  $z = t_4$ , where  $-\infty < t_1, t_2, t_3, t_4 < \infty$ .
11. (a) If the solution set is described by the equations  $x = 5 + 2t$ ,  $y = t$ , then on replacing  $t$  by  $y$  in the first equation we have  $x = 5 + 2y$  or  $x - 2y = 5$ . This is a linear equation with the given solution set.
- (b) The solution set can also be described by solving the equation for  $y$  in terms of  $x$ , and then making  $x$  into a parameter. This leads to the equations  $x = t$ ,  $y = \frac{1}{2}t - \frac{5}{2}$ .

# Contemporary Linear Algebra Student Solutions 1st Edition

**Robert Rogers**



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