Warm-up Questions – Solving Linear Systems

Find the solution set of each linear system, if possible.

1. $\begin{cases} x + y = 2 \\ \quad y = 5 \end{cases}$

2. $\begin{cases} -x + 2y - \ z = -3 \\ \quad 3y + \ z = -1 \\ \quad\quad 2z = 4 \end{cases}$

3. $\begin{cases} x + y - z = 5 \\ \quad\quad z = 3 \end{cases}$

4. $\begin{cases} \ x + y = 1 \\ \ x - y = 3 \\ \frac{1}{2}x + y = 1 \end{cases}$

5. $\begin{cases} x + \ y - 2z = 0 \\ \quad 2y - 8z = 6 \\ \quad\ y - 4z = 5 \end{cases}$