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## 1 Section 3.1

## 1.1 3.1.3

Use the method of elimination to determine whether the given linear system is consistent or inconsistent. If the linear system is consistent, find the solution if it is unique; otherwise, describe the infinite solution set in terms of an arbitrary parameter t.

$$\begin{cases} 7x + 5y = -22\\ 2x + 9y = 24 \end{cases}$$

$$\begin{cases} x + \frac{5}{7}y = -\frac{22}{7} \\ -x - \frac{9}{2}y = -12 \end{cases}$$
$$-\frac{53}{14}y = -\frac{106}{7}$$
$$y = 4$$
$$7x + 5(4) = -22$$
$$x = -6$$

Unique solution: x = -6, y = 4