

## 4.2: The Method of Elimination

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**Example 1.** Find the particular solution of the system

$$x' = 4x - 3y, \quad y' = 6x - 7y$$

that satisfies the initial conditions  $x(0) = 2$  and  $y(0) = -1$ .

**Example 2.** Find a general solution of the system

$$\begin{aligned}(x' - 4x) + 3y &= 0, \\ -6x + (y' + 7y) &= 0.\end{aligned}$$

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**Homework.** 1-11 (odd)