

MAC1105  
7.1 Practice Problems

Solve the following systems by substitution.

1. 
$$\begin{cases} 5x + 6y = 1 \\ y = 3x + 4 \end{cases}$$

2. 
$$\begin{cases} 7x - 2y = 10 \\ x + 3y = 8 \end{cases}$$

Solve the following systems by elimination.

3. 
$$\begin{cases} 2x + y = 7 \\ 3x - y = -2 \end{cases}$$

4. 
$$\begin{cases} 2x + 3y = -9 \\ 4x - y = 17 \end{cases}$$

Solve the following systems by substitution or elimination.

$$5. \begin{cases} 2x+3y=8 \\ 3x+4y=-5 \end{cases}$$

$$6. \begin{cases} 6x-y=-15 \\ 4x+5y=7 \end{cases}$$

$$7. \begin{cases} 3x-2y=8 \\ -6x+4y=-16 \end{cases}$$

$$8. \begin{cases} 4x-y=5 \\ 2y-8x=7 \end{cases}$$