PROBLEM SET 3-1
(Graphing Systems of Equations)

Solve the following systems by graphing:

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

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

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

4. $\begin{cases} 3x + 6y = 12 \\ x + 2y = 8 \end{cases}$

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

6. $\begin{cases} x - 2y = -2 \\ 2x - 4y = 4 \end{cases}$

Without graphing, classify each system as *independent, dependent* or *inconsistent*:

7. $\begin{cases} 3x - 2y = 8 \\ 6x - 4y = 5 \end{cases}$

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

9. $\begin{cases} 2x + 6y = 14 \\ x - 2y = -3 \end{cases}$

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