NAME _____ CLASS _____ DATE _____

Practice

7.2 The Substitution Method

Solve and check each system by using the substitution method.

1. $\begin{cases} y = 2x \\ 2x + y = -12 \end{cases}$ _____

2. $\begin{cases} y = x + 3 \\ 3x + y = 11 \end{cases}$ _____

3. $\begin{cases} y = 2x + 1 \\ x + 3y = 31 \end{cases}$ _____

4. $\begin{cases} x + y = 3 \\ 4x - 2y = 18 \end{cases}$ _____

5. $\begin{cases} 2x - 3y = -25 \\ 3x + y = 1 \end{cases}$ _____

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

7. $\begin{cases} 2x + 5y = -7 \\ 3x - y = -2 \end{cases}$ _____

8. $\begin{cases} 2x - y = -11 \\ 3x - 6y = 6 \end{cases}$ _____

9. $\begin{cases} x - y = 4 \\ 2x - 3y = 6 \end{cases}$ _____

10. $\begin{cases} 3x + y = -3 \\ x - 3y = 11 \end{cases}$ _____

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

12. $\begin{cases} 2x + y = 2 \\ 4x - 2y = -4 \end{cases}$ _____

13. $\begin{cases} x = y - 4.2 \\ 2x - 3y = -9 \end{cases}$ _____

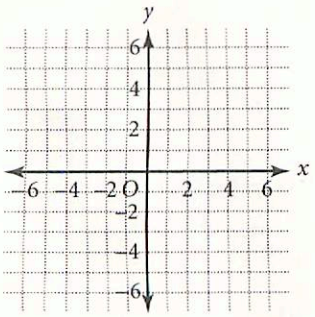
14. $\begin{cases} -2x - y = 4 \\ x + y = -3 \end{cases}$ _____

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

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

Graph each system and estimate the solution. Then use the substitution method to get an exact solution.

17. $\begin{cases} y = 2x \\ 2x + y = 7 \end{cases}$ _____



18. $\begin{cases} x + y = 2 \\ x - 2y = 0 \end{cases}$ _____