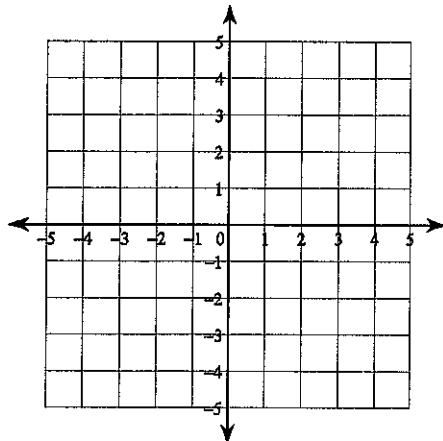
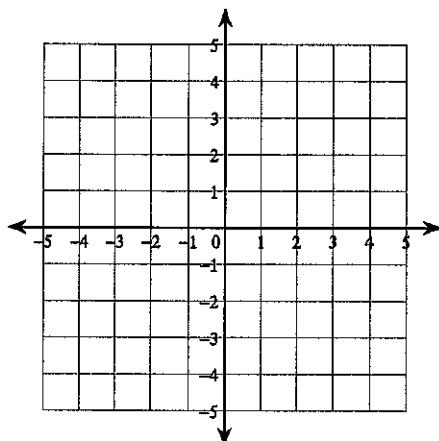


Systems of Two Equations**Solve each system by graphing.**

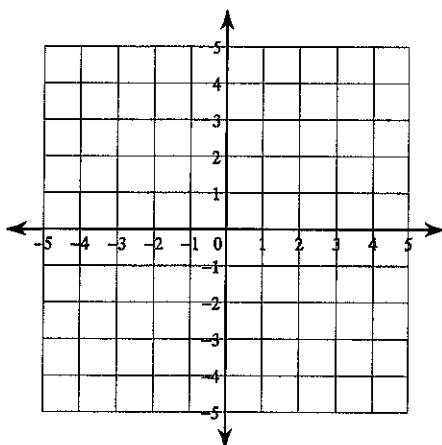
1) $y = -3x + 4$
 $y = 3x - 2$



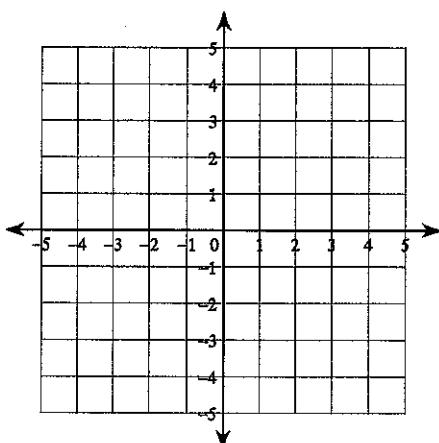
2) $y = x + 2$
 $x = -3$



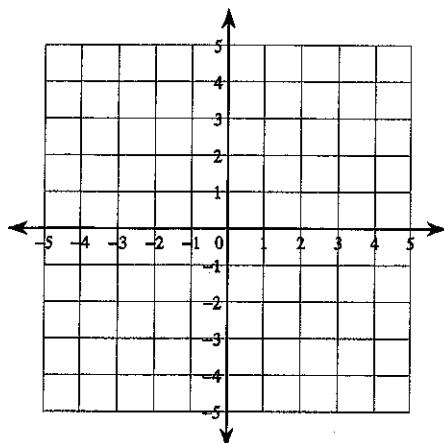
3) $x - y = 3$
 $7x - y = -3$



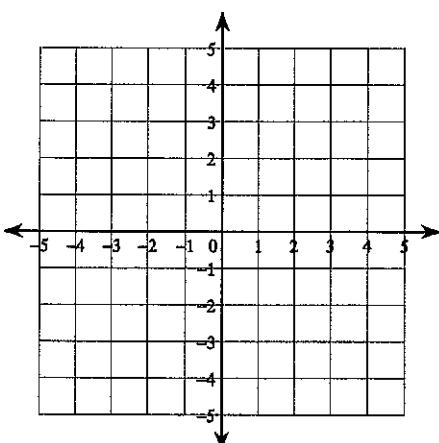
4) $4x + y = 2$
 $x - y = 3$



5) $8x + y = -4$
 $0 = -4 - y - 8x$



6) $2y + x + 4 = 0$
 $-x = -8 - 2y$



Solve each system by substitution.

$$7) \begin{aligned} y &= 4x - 9 \\ y &= x - 3 \end{aligned}$$

$$8) \begin{aligned} 4x + 2y &= 10 \\ x - y &= 13 \end{aligned}$$

$$9) \begin{aligned} y &= -5 \\ 5x + 4y &= -20 \end{aligned}$$

$$10) \begin{aligned} x + 7y &= 0 \\ 2x - 8y &= 22 \end{aligned}$$

$$11) \begin{aligned} 6x + 8y &= -22 \\ y &= -5 \end{aligned}$$

$$12) \begin{aligned} 7x + 2y &= -6 \\ -14x - 4y &= -2 \end{aligned}$$

$$13) \begin{aligned} 2x + 2y &= -6 \\ 5x - 5y &= -15 \end{aligned}$$

$$14) \begin{aligned} -x + 2y &= -7 \\ -2x - 6y &= -14 \end{aligned}$$

Solve each system by elimination.

$$15) \begin{aligned} -x - y &= 8 \\ x - 3y &= 8 \end{aligned}$$

$$16) \begin{aligned} -2x - 2y &= 6 \\ 10x + 10y &= -30 \end{aligned}$$

$$17) \begin{aligned} 4x + 5y &= -9 \\ 8x - y &= -7 \end{aligned}$$

$$18) \begin{aligned} -2x + 3y &= 15 \\ -6x + 6y &= 18 \end{aligned}$$

$$19) \begin{aligned} 2x + 18y &= 22 \\ -x - 9y &= -11 \end{aligned}$$

$$20) \begin{aligned} 3x + 7x - 8y &= 0 \\ -10y &= -12 - 6x \end{aligned}$$

$$21) \begin{aligned} -x + \frac{2}{5} &= -\frac{3}{5}y \\ 3y &= -\frac{18}{11}x + \frac{51}{11} \end{aligned}$$

$$22) \begin{aligned} -17 - 5y - 11x &= 0 \\ -15 &= 9x + 4y \end{aligned}$$

Critical thinking questions:

- 23) Write a system of equations with the solution $(4, -3)$.