## 3-1 Skills Practice

Solving Systems of Equations By Graphing

Solve each system of equations by graphing.

1. $x = 2$
$y = 0$ *(2,0)*
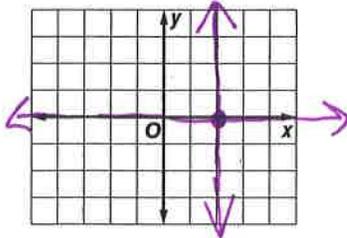
**2.** $y = -3x + 6$
$y = 2x - 4$ *(2,0)*

3. $y = 4 - 3x$
$y = -\frac{1}{2}x - 1$ *(2,-2)*

4. $y = 4 - x$
$y = x - 2$ *(3,1)*

5. $y = -2x + 2$
$y = \frac{1}{3}x - 5$ *(3,-4)*

6. $y = x$
$y = -3x + 4$ *(1,1)*

7. $x + y = 3$ $y = -x + 3$
$x - y = 1$ $y = x - 1$ *(2,1)*

8. $x - y = 4$ $y = x - 4$
$2x - 5y = 8$ $y = \frac{2}{5}x - \frac{8}{5}$ *(4,0)*

**9.** $3x - 2y = 4$ $y = +\frac{3}{2}x - 2$
$2x - y = 1$ $y = 2x - 1$

(-2,-5)
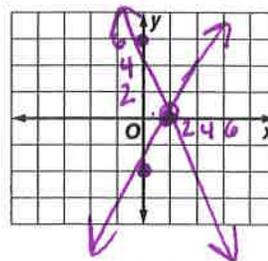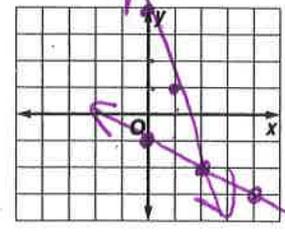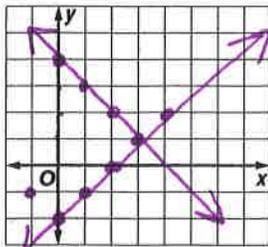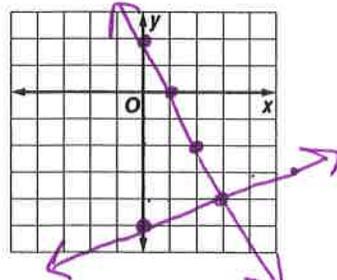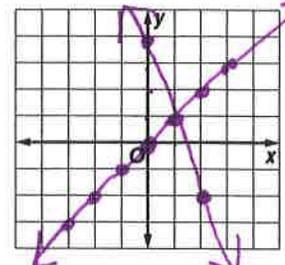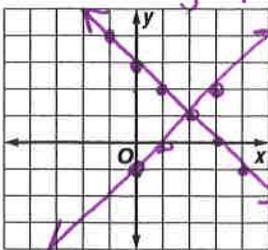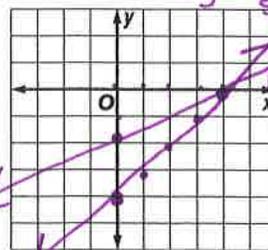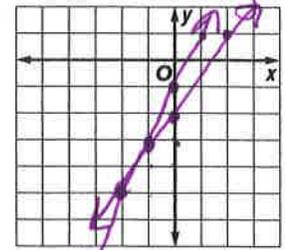
Graph each system of equations and describe it as *consistent and independent*, *consistent and dependent*, or *inconsistent*.

10. $y = -3x$
$y = -3x + 2$
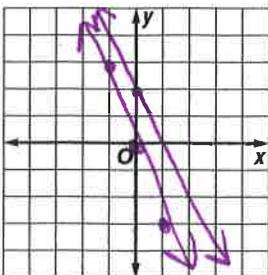
inconsistent

11. $y = x - 5$
$-2x + 2y = -10$ $y = x - 5$
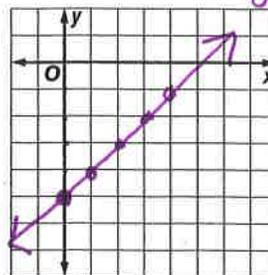
consistent and dependent

12. $2x - 5y = 10$ $y = \frac{2}{5}x - 2$
$3x + y = 15$ $y = -3x + 15$

consistent and independent