Equations as Relations

Which ordered pairs are solutions of each equation?

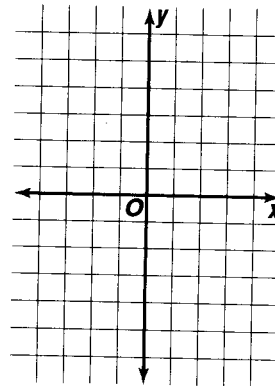1. $a + 3b = 5$ **a.** $(2, 1)$ **b.** $(1, -2)$ **c.** $(-3, 3)$ **d.** $(8, -1)$

2. $2g + 4h = 4$ **a.** $(2, -2)$ **b.** $(4, -1)$ **c.** $(-2, 2)$ **d.** $(-4, 3)$

3. $-3x + y = 1$ **a.** $(4, 11)$ **b.** $(1, 4)$ **c.** $(-2, -5)$ **d.** $(-1, -2)$

4. $9 = 5c - d$ **a.** $(2, 1)$ **b.** $(1, -4)$ **c.** $(-2, -1)$ **d.** $(4, 11)$

5. $2m = n + 6$ **a.** $(4, -2)$ **b.** $(3, -2)$ **c.** $(3, 0)$ **d.** $(4, 2)$

Solve each equation if the domain is {−2, −1, 0, 1, 2}. Graph the solution set.
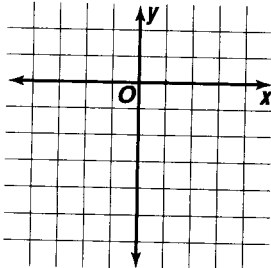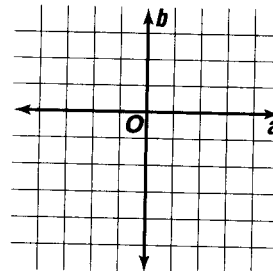
6. $-3x = y$
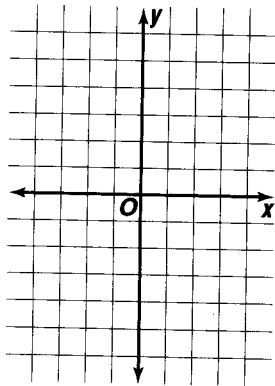
7. $y = 2x + 1$

8. $-2x - 2 = y$

9. $2 + 2b = 4a$

Find the domain of each equation if the range is {−4, −2, 0, 1, 2}.

10. $y = x + 5$

11. $3y = 2x$