

1. The order in which numbers are added or multiplied does not change the sum or product; $2+3+4 = 4+2+3$

Vocabulary and Concepts

1. Explain the Commutative Property. Give an example using addition.
2. Describe the process used to solve a two-step equation.
2. Work backward using the reverse order of operations.
3. Explain how to graph the function $y = 2x + 1$.
3. Complete a function table by inserting a number for x and finding the answer to represent the y in the coordinate pairs. Then graph the coordinate pairs.

Skills and Applications

Identify the property shown by each equation.

4. $5 \times (3 \times 2) = (5 \times 3) \times 2$ Associative Property (X)
 5. $14 + 9 = 9 + 14$ Commutative Property (+)

Rewrite each expression using the Distributive Property. Then evaluate.

6. $2(12 + 5) = 24 + 10 = 34$ 7. $16(12) + 16(8) = 16(12+8) = 320$

Solve each equation. Use models if necessary.

- $x = -16$ 8. $-5 = x + 11$ $w = +12$ 9. $w + 17 = 29$ $m = 12$ 10. $m - 9 = 3$
 $p = +4$ 11. $p - 5 = -1$ $d = -7$ 12. $-6d = 42$ $c = 14$ 13. $12 = c + (-2)$
 $b = -4$ 14. $2b = -8$ $n = 5$ 15. $15 = 3n$ $g = +1$ 16. $g - 4 = -3$
 $x = +1$ 17. $6x + 4 = 10$ $y = 10$ 18. $24 = 3y - 6$ $m = 6$ 19. $-5m = -30$

20. Copy and complete the function table.

| Input (x) | Output (2x + 3) |
|-----------|----------------------------|
| -2 | $2(-2) + 3 \rightarrow -1$ |
| 1 | $2(1) + 3 \rightarrow 5$ |
| 2 | $2(2) + 3 \rightarrow 7$ |

21. Find the rule for the function table.

| x | y |
|----|---|
| -3 | 1 |
| 0 | 2 |
| 1 | 3 |

$x + 2$

Make a function table for each given rule and input values. Then graph the function.

22. $y = x - 4$; -1, 2, 6 see notes
 23. $y = 3x$; -2, 1, 4 see notes
 24. $y = -2x - 2$; -3, 0, 1 see notes

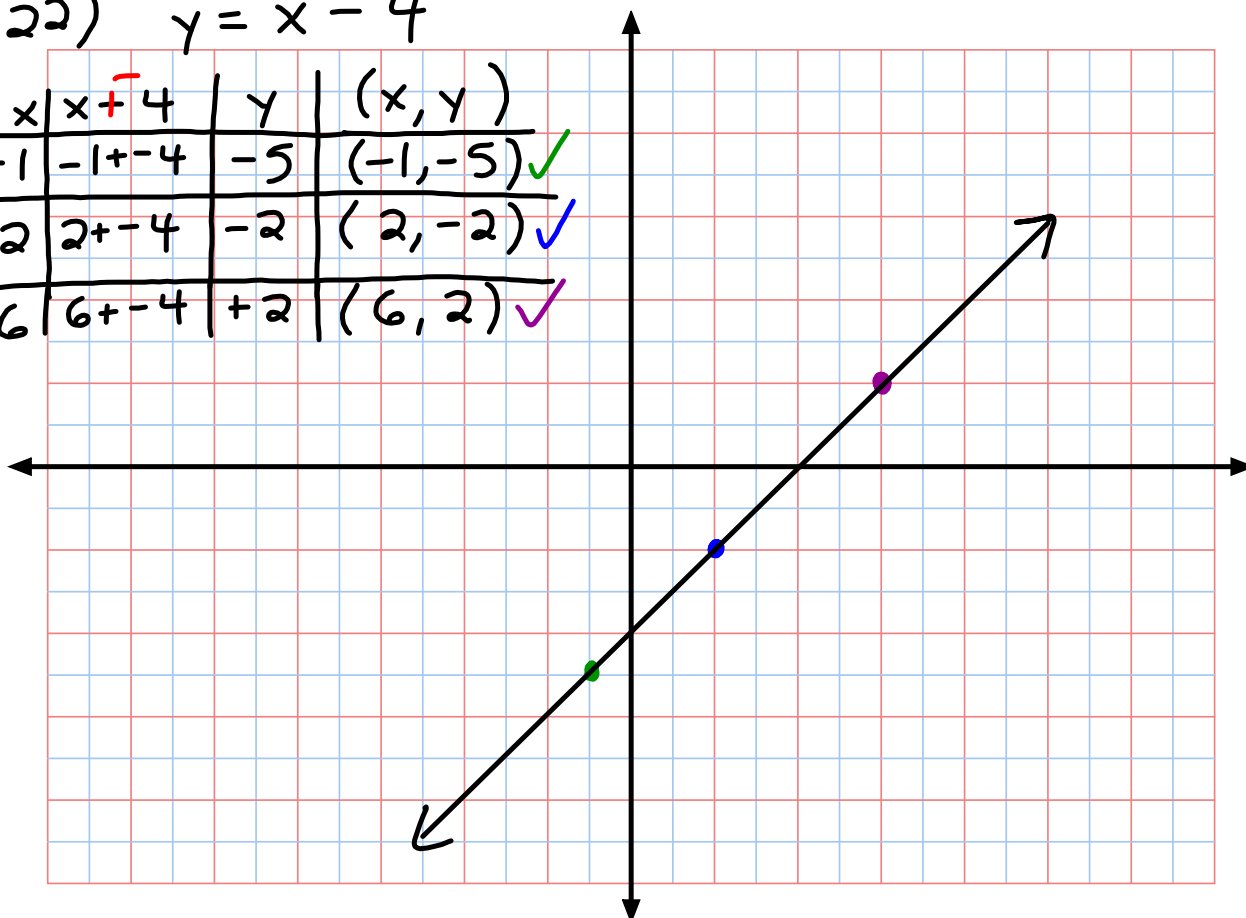
Standardized Test Practice

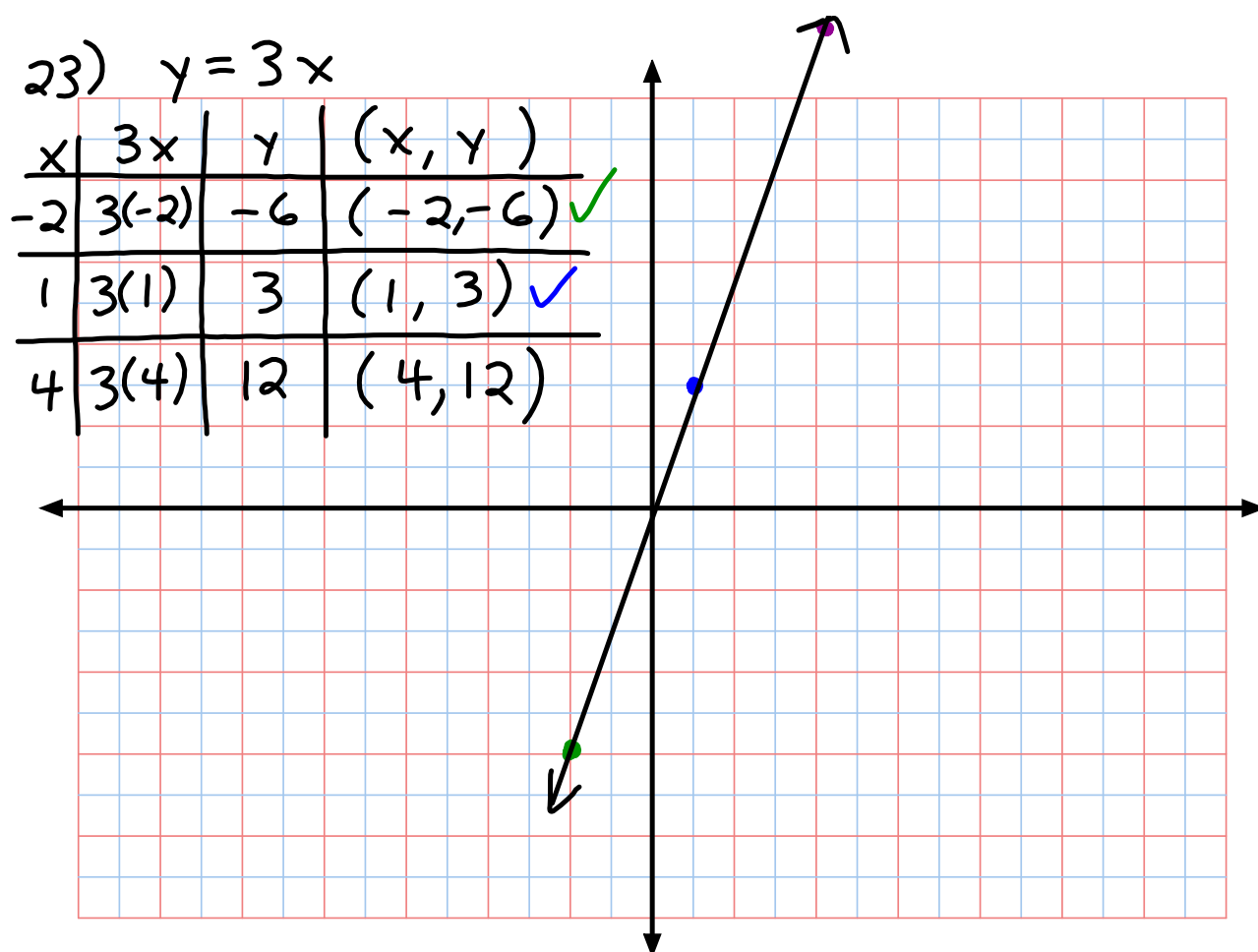
25. **MULTIPLE CHOICE** Fresno, California, f , and Buffalo, New York, b , are 3 time zones apart. Use the function rule $f = b - 3$ to find the time in Buffalo when it is 3:30 P.M. in Fresno.

- (A) 4:30 P.M. (B) 6:30 P.M. (C) 9:30 P.M. (D) 12:30 P.M.

22) $y = x - 4$

| x | x - 4 | y | (x, y) |
|----|--------|----|------------|
| -1 | -1 - 4 | -5 | (-1, -5) ✓ |
| 2 | 2 - 4 | -2 | (2, -2) ✓ |
| 6 | 6 - 4 | 2 | (6, 2) ✓ |





$$24) y = -2x - 2$$

| x | $-2x + 2$ | y | (x, y) |
|----|--------------|----|-----------|
| -3 | $-2(-3) + 2$ | +4 | (-3, 4) ✓ |
| 0 | $-2(0) + 2$ | -2 | (0, -2) ✓ |
| 1 | $-2(1) + 2$ | 0 | (1, -4) ✓ |

