

QUOTABLE PUZZLE

Expressions and Operations

A.2b

Directions: Solve the following problems. Match that answer to the correct letter of the alphabet. Enter that letter of the alphabet on the blank corresponding to the problem number.

7 12 12 7 14 12 9 1 2 15 8 7 6 15

16 11 13 5 15 5 8 10 9 4 14 16 3

A **B** **C** **D** **E** **F** **G** **H** **I**
 $5x - 2y$ $4x + 11$ -4 $-5x^2 - 3x + 2$ 0 $3x^2 + 11$ 4 $3x^2 - 16$ $-3x - 8$

J **K** **L** **M** **N** **O** **P**
 $9x - 10y$ $2x^2 + 12x + 10$ $x^2 + 2$ $5m - 5n$ $3x^3 + 10x^2 - 42x + 8$ $2x + 4y$ $2x - 4y$

Q **R** **S** **T** **U** **V** **W** **X** **Y**
 -12 $2x^2 + 5x - 8$ $2x^2$ 12 $5x^2 + 10x + 6$ $13x^2 + 16x - 10$ $x^2 - 2$ 1 $x^3 + 5x^2 + 2$

Simplify:

1. $(2x^2 + 4x + 1) + (3x^2 + 6x + 5)$

2. $(x + 6) + (3x + 5)$

3. $(x^3 + 2x^2 - 4) + (3x^2 + 6)$

4. $(4x - 2y) + (-2x + 6y)$

5. $(x^2 + 6x - 4) + (-x^2 - 6x + 4)$

6. $6x - 4 - 6x$

7. $3x + 6y - 8y + 2x$

8. $(6x^2 + 3x - 5) - (4x^2 - 2x + 3)$

9. $x^2 + 6 - 6 + x^2$

10. $(3m - 6n) + (2m + n)$

11. $(5x - 6) - (8x + 2)$

12. $(3x^2 + x - 4) + (-8x^2 - 4x + 6)$

13. $(x^2 + 6x + 5) + (x^2 + 6x + 5)$

14. $3x(x^2 + 2x - 6) + 4(x^2 - 6x + 2)$

15. $(3x + 6) - (3x - 6)$

16. $(7x^2 + 8x - 4) - (6x^2 + 8x - 6)$