

Adding & Subtracting Polynomials Quotable Puzzle

Name: Key

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.

A D D A N D S U B T R A C T
 $\frac{7}{7}$ $\frac{12}{12}$ $\frac{12}{12}$ $\frac{7}{7}$ $\frac{14}{14}$ $\frac{12}{12}$ $\frac{9}{9}$ $\frac{1}{1}$ $\frac{2}{2}$ $\frac{15}{15}$ $\frac{8}{8}$ $\frac{7}{7}$ $\frac{6}{6}$ $\frac{15}{15}$

L I K E T E R M S O N L Y
 $\frac{16}{16}$ $\frac{11}{11}$ $\frac{13}{13}$ $\frac{5}{5}$ $\frac{15}{15}$ $\frac{5}{5}$ $\frac{8}{8}$ $\frac{10}{10}$ $\frac{9}{9}$ $\frac{4}{4}$ $\frac{14}{14}$ $\frac{16}{16}$ $\frac{30}{30}$

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

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

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

Simplify:

1. $(2x^2 + 4x + 1) + (3x^2 + 6x + 5)$
 $5x^2 + 10x + 6$ **4**

2. $(x + 6) + (3x + 5)$
 $4x + 11$ **B**

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

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

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

6. $6x - 4 - 6x$
 -4 **C**

7. $3x + 6y - 8y + 2x$
 $5x - 2y$ **A**

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

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

10. $(3m - 6n) + (2m + n)$
 $5m - 5n$ **M**

11. $(5x - 6) + (8x + 2)$
 $-3x - 8$ **I**

12. $(3x^2 + x - 4) + (-8x^2 - 4x + 6)$
 $-5x^2 - 3x + 2$ **D**

13. $(x^2 + 6x + 5) + (x^2 + 6x + 5)$
 $2x^2 + 12x + 10$ **K**

14. $3x(x^2 + 2x - 6) + 4(x^2 - 6x + 2)$
 $3x^3 + 6x^2 - 18x + 4x^2 - 24x + 8$

15. $(3x + 6) + (3x + 6)$
 $6x + 12$ **T**

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

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