

KEY

QUOTABLE PUZZLE

Multiplying Polynomials

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.

F I R S + O U T E R I N N E R L A S +
3 5 9 2 7 11 6 7 8 9 5 10 10 8 9 1 4 2 7

- | | | | | | | | | |
|------------------------------|--------------------------------|-----------------------------|------------------------|-----------------------------|------------------------------|-------------------------|-------------------------|------------------------------|
| A
$3x^2 + 2x - 1$ | B
$x^2 + 3$ | C
$2x^2 - 12$ | D
$x^2 - 78$ | E
$x^2 + 9x - 36$ | F
$x^2 + 7x - 78$ | G
$3x^2 - 1$ | H
$x^2 - 36$ | I
$x^2 - 12x + 36$ |
| J
$x^2 + 36$ | K
$20x^2 - 36$ | L
$x^2 + 4x + 3$ | M
$x^2 + 36$ | N
$x^2 - 16$ | O
$x^2 + 10x + 25$ | P
$2x^2 - 25$ | Q
$2x^2 + 25$ | R
$2x^2 - 5x - 25$ |
| S
$2x^2 + 5x - 12$ | T
$20x^2 - 63x + 36$ | U
$x^2 - 9x - 36$ | V
$x^2 + 25$ | W
$x^2 + 16$ | X
$2x^2 - 5x + 12$ | Y
$3x^2 + 1$ | Z
0 | |

1. $(x+3)(x+1)$ $x^2 + x + 3x + 3$
L $x^2 + 4x + 3$
2. $(2x-3)(x+4)$ $2x^2 + 8x - 3x - 12$
S $2x^2 + 5x - 12$
3. $(x+13)(x-6)$ $x^2 - 6x + 13x - 78$
F $x^2 + 7x - 78$
4. $(3x-1)(x+1)$ $3x^2 + 3x - x - 1$
IA $3x^2 + 2x - 1$
5. $(x-6)^2$
I $x^2 - 12x + 36$
6. $(x-12)(x+3)$ $x^2 + 3x - 12x - 36$
U $x^2 - 9x - 36$

7. $(4x-3)(5x-12)$ $20x^2 - 48x - 15x + 36$
T $20x^2 - 63x + 36$
8. $(x-3)(x+12)$ $x^2 + 12x - 3x - 36$
E $x^2 + 9x - 36$
9. $(2x+5)(x-5)$ $2x^2 - 10x + 5x - 25$
R $2x^2 - 5x - 25$
10. $(x-4)(x+4)$
N special case $x^2 - 16$
11. $(x+5)^2$
O $x^2 + 10x + 25$