

Multiplying Polynomials Worksheet Answer Key

We're Having the Times of Our Lives

Multiply the following polynomials.

1. $3x(x + 10)$

$$3x^2 + 30x$$

6. $(x + 4)(x + 7)$

$$x^2 + 11x + 28$$

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

$$4x^5 + 16x^3 + 12x^2$$

7. $(z - 4)(x + 3)$

$$xz - 4x + 3z - 12$$

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

$$-3x^4 + 9x^3 + 12x^2$$

8. $(x - 4)(-2x + 10)$

$$-2x^2 + 18x - 40$$

4. $(x^2 + 2xy - 4y^2)(-2x)$

$$-2x^3 - 4x^2y + 8xy^2$$

9. $(3x + 4)(2x + 2)$

$$6x^2 + 14x + 8$$

5. $(0)(8x^2y + 3xy + 15x + 7)$

$$0$$

10. $(4x + y)(3x - y)$

$$12x^2 - xy - y^2$$

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