

SPARK Hybrid Education Center

Mathematics | Week 2: Multiplying Polynomials | Upper Level

Name: _____ Date: _____

Directions: Solve each problem. Show your work in the space provided. Circle your final answer.

1. Multiply: $3(x + 4)$

2. Multiply: $x(2x - 5)$

3. Use FOIL: $(x + 3)(x + 2)$

4. Use FOIL: $(x - 4)(x + 6)$

5. Multiply: $(2x + 1)(x - 3)$

6. Use FOIL: $(3x + 2)(x + 5)$

7. Multiply: $(x + 7)(x - 7)$

8. Multiply: $(2x - 3)^2$

--- Answer Key (Cut before distributing) ---

1. $3x + 12$
2. $2x^2 - 5x$
3. $x^2 + 5x + 6$
4. $x^2 + 2x - 24$
5. $2x^2 - 5x - 3$
6. $3x^2 + 17x + 10$
7. $x^2 - 49$ (difference of squares)
8. $4x^2 - 12x + 9$

