



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Add and subtract polynomials. ✓ Multiply binomials using FOIL. ✓ Classify polynomials by number of terms.
- ✓ Combine like terms.



Section A • Concept Check

• BEGINNER

$4 \times 1 = 4$

1 $(4x^2+5x-2) + (2x^2-3x+6) = ?$

- ☐ A. $6x^2 + 2x + 4$ ☐ B. $6x^2 + 8x + 4$
- ☐ C. $2x^2 + 2x - 8$ ☐ D. $6x^2 + 2x - 8$

2 $(6x^2+4x-1) - (3x^2+2x+3) = ?$

- ☐ A. $3x^2 + 2x - 4$ ☐ B. $3x^2 + 6x + 2$
- ☐ C. $3x^2 + 2x + 2$ ☐ D. $9x^2 + 6x + 2$

3 $(x+1)(x+6) = ?$

- ☐ A. $x^2 + 7x + 6$ ☐ B. $x^2 + 6x + 6$ ☐ C. $x^2 + 7x + 7$
- ☐ D. $x^2 + 6$

4 $(x-2)(x-5) = ?$

- ☐ A. $x^2 - 7x + 10$ ☐ B. $x^2 + 7x + 10$ ☐ C. $x^2 - 7x - 10$
- ☐ D. $x^2 - 10$



Section B • Problem Solving

• INTERMEDIATE

$2 + 3 \times 3 = 11$

5 To add polynomials, combine _____ terms.

6 $(x+1)(x+6) =$ _____

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

8 Subtract $(6x^2+4x-1) - (3x^2+2x+3)$.

9 Multiply $(x+1)(x+6)$ using FOIL.



Section C • Challenge

• CHALLENGE

5 _____

10 Multiply $(x-2)(x-5)$ using FOIL.

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 Total ___/20

Teacher's Signature _____

Parent's Signature _____

ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-A 3-A 4-A | 5 like 6 x^2+7x+6 7 = $6x^2+2x+4$ 8 = $3x^2+2x-4$ 9 = x^2+7x+6 | 10 = $x^2-7x+10$