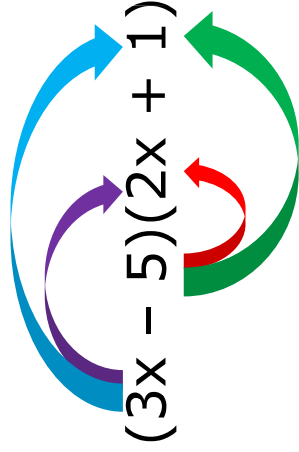


NOTES: MULTIPLYING BINOMIALS AND TRINOMIALS

Use FOIL

- F** - First Terms
- O** - Outer Terms
- I** - Inner Terms
- L** - Last Terms



Step 1)
Multiply
using FOIL

$$(3x - 5)(2x + 1)$$

$$6x^2 + 3x - 10x - 5$$

Step 2)
Combine
Like Terms!

$$6x^2 - 7x - 5$$

Multiply each set of binomials using FOIL. Be sure to write all answers in standard form.

1. $(x - 1)(x + 4)$

2. $(4x - 3)(5x + 2)$

3. $(5x + 4)(3x + 2)$

4. $(7x - 3)(2x + 1)$

5. $(x - 5)(-2x + 9)$

6. $(3x + 2)(3x - 2)$

7. $(5xy - 1)(10xy + 7)$

8. $(4x + 9y)(3x - 7y)$

9. $(2x - 1)(5x^2 + 7x + 1)$

10. $(3x^2 + 1)(4x^2 + x - 2)$

Name: _____

Date: _____

Period: _____

A. MULTIPLYING BINOMIALS AND TRINOMIALS

Multiply each set of binomials using FOIL. Be sure to write all answers in standard form.

1. $(x - 2)(x + 7)$

2. $(5x - 3)(8x + 1)$

3. $(2x - 1)(x + 6)$

4. $(4x - 1)(7x + 8)$

5. $(4x + 5)(3x + 1)$

6. $(x + 3)(5x + 6)$

7. $(7x - 1)(x + 5)$

8. $(x - 3)(x + 3)$

9. $(3x + 8)(4x + 5)$

10. $(4x - 3)(5x + 1)$

11. $(5xy - 1)(6xy - 11)$

12. $(3x + 7)(3x - 7)$

13. $(x + 5)(2x^2 - 5x + 3)$

14. $(3x + 1)(x^2 - 2x - 4)$

15. $(4x - 9)(2x^2 + 20x - 1)$

16. $(4x - 3)(2x^2 - x - 5)$