

Name: _____

Unit 7: Polynomials & Factoring

Date: _____

Bell: _____

Homework 3: Multiplying Binomials & Trinomials

Directions: Simplify the following polynomials. Answers must be in standard form.

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

$$x^2 + 2x + 7x + 14$$

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

$$x^2 + 8x + 3x + 24$$
$$x^2 + 11x + 24$$

3. $(b + 4)(b - 2)$

$$b^2 + 2b - 4b - 8$$

4. $(w - 7)(w + 3)$

$$w^2 - 7w + 3w - 21$$

$$w^2 - 4w - 21$$

5. $(m - 5)(m - 2)$

$$m^2 - 2m - 5m + 10$$

$$m^2 - 7m + 10$$

6. $(y - 1)(y - 3)$

$$y^2 - 3y - 1y + 3$$

$$y^2 - 4y + 3$$

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

$$2x^2 + 2x + 3x + 3$$

$$2x^2 + 5x + 3$$

8. $(k + 4)(3k + 2)$

$$3k^2 + 8k + 8$$

$$3k^2 + 14k + 8$$

9. $(4m + n)(m - 2n)$

$$4m^2 + 3mn - 2n^2 - 2n^2$$

$$4m^2 - 4mn - 4n^2$$

10. $(w + 6)(3w - 4)$

$$3w^2 - 4w + 18w - 24$$

$$3w^2 + 14w - 24$$

11. $(5x + 3)(x - 2)$

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

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

12. $(2a - 4b)(7a - 2b)$

$$14a^2 - 4ab - 28ab + 8b^2$$

$$14a^2 - 32ab + 8b^2$$

13. $(x + 4)^2$

$$x^2 + 8x + 16$$

14. $(a - 3)^2$

15. $(4m + 1)^2$

$$16m^2 + 8m + 1$$

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

17. $(y - 8)(y + 8)$

$$y^2 - 64$$

18. $(2w + 1)(2w - 1)$

19. $(3a + 4b)(3a - 4b)$

$$9a^2 - 16b^2$$

20. $(x + 5)(x^2 + 4x - 8)$

$$x^3 + 9x^2 + 17x - 40$$

21. $(m + 3)(m^2 + 4m + 7)$

$$m^3 + 7m^2 + 19m + 21$$

22. $(4x - 1)(x^2 - 7x + 1)$

23. $(2h + 3)(2h^2 + 3h + 4)$

$$4h^3 + 17h^2 + 17h + 12$$

24. $(3x + 2)(5x^2 - 12x - 2)$

25. Write an expression to represent the area of the shaded region in simplest form.

$5x + 2$



$3x - 1$

$$14x^2 - 6x - 2$$

Gina Wilson Polynomials All Operations Answer Key

Yicheng Fang



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