Name: _____

Date: _____ Bell: _____

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

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

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

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

$x^2 + 3x + 5x + 24$

$x^2 + 11x + 24$

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

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

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

$w^2 - ?w - ? - 10$

$w^2 - 4w - 21$

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

$m^2 - 2m - 5m + w$

$m^2 - 7m + 6$

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

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

$y^2 - 4y + 3$

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

$2x^2 + 7x + 3x + 3$

$2x^2 + 5x + 3$

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

$x^3 + 2k + 8$

$3k^2 + 14 + 8$

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

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

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

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

$w^2 - 3w + 13w - 24$

$3w^2 + 14w - 24$

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

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

$5x^2 - 7x - 6$

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

$14a^2 - 4ab$

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

13. $(x + 4)^2$

$x^2 + 8x + 16$

14. $(a - 3)^2$

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

$16m^2 + 2m + 1$

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

$x^3 + 9 x^2 + 12 - 40$
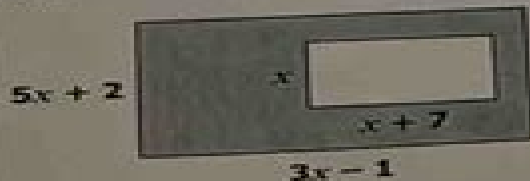
21. $(m + 3)(m^2 + 4m + 7)$

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

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

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

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

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

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

$5x + 2$ x $x + 7$ $3x - 1$

$14x^2 - 6x - 2$

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L. Castelluzzo

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Polynomials and factoring Marsha Horvath,1999 Techniques for Factoring Polynomials Rodger Hawes,1975

Factoring Polynomials Exercise Workbook L. Castelluzzo,2019-11-03 This book provides the reader with an opportunity to practice factoring binomials and trinomials The solutions are provided for each question with all steps so that the student will be able to pinpoint exactly where any errors may have been made This book does not teach the theory but instead it is intended to allow students to practice what they have learned in their mathematics course *A Comparison of Two Methods of Factoring Polynomials in Algebra I* Lawrence L. Erl,1971

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