

Name: _____

Unit 7: Polynomials & Factoring



Date: _____ Bell: _____

Homework 3: Multiplying Binomials & Trinomials

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

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

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

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

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

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

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

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

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

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

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

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

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

13. $(x + 4)^2$

14. $(a - 3)^2$

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

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

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

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

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

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

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

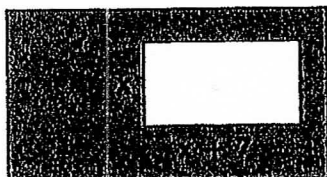
22. $(4x - 1)(x^2 - 7x + 1)$

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

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

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

$5x + 2$



$3x - 1$