

Name _____

Date _____

Algebra I

Directions: Find the product.

1. $(b + 2)(b^2 + 4b + 4)$

2. $(7g - 3)(g^2 - 2g + 7)$

3. $(5x^3 + 2x^2 - 4)(3x + 1)$

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

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

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

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

8. $(x + 2)^3$

9. $(4a + 4)(2a^2 + 3a - 7)$

10. $(x^2 - 4x - 3)(x^2 + 2x - 8)$

$$11. (a + 2)(2a - 3)(a - 4)$$

$$12. (6w^2 - 6w - 5)(7w^2 + 6w - 5)$$

$$13. (m^2 - 6m + 9)^2$$

$$14. (x - 6)^3$$

$$15. (x + 8)^3$$

$$16. (x + 7)(x - 9) - (x - 8)(x - 7)$$

$$17. (x - 6)^2 - (x - 3)^2$$

$$18. (x - 4)(x + 3) - (x + 2)(x - 7)$$

$$19. 4(x + 6)(x - 2) - (2x - 4)$$

$$20. (x^2 + 4x - 5 + 3x^2 + 1)(x + 2)$$

$$21. (x + 1)^2 - 2(x + 4)$$

$$22. (x - y)(x + y)(x^2 + y^2)$$