Name _____

Algebra 2 - Unit 5 Test Review

1. Write a polynomial in standard form.

2. Simplify. $2x^2 + 10x^2$

3. Simplify $5x^2 \cdot 2x^8$?

4. Any number raised to the power of 0 is _____.

Use the following polynomial for questions 5 – 8: $6x^2 - 2x^5 + 5$

5. What is the degree of the polynomial?

6. What type of polynomial is this?

7. What is the constant term?

8. Simplify x^0

9. Simplify $(x^2)^{10}$

10. Simplify. $(6a^0b^5)(4a^5b^4)$.

11. Simplify. $\dfrac{8a^3b^3}{2ab^2}$

12. Simplify $(8x^2 - 6) + (5x^2 + 20)$

13. Simplify. $(10a^3 - 6a^2 + a) - (6a^3 - 2a^2 - 8)$.

14. Simplify: $(x^3 - 2x + 1) \div (x - 1)$

15. Simplify. $(x^2 - 2x - 35) \div (x - 7)$