

Algebra 1
Practice Quiz 7.1-7.4

NAME _____

Simplify. (2 Points)

1. $(a^4)(a^7)$

2. $(b^6)(b)(b^2)$

3. $(2c^3)(3c^4)$

4. $(-2d^4)(4d^3e)$

5. $(4g^4h^3)(6g^3h^2)$

6. $(k^2)^5$

7. $(3p^3)^4$

8. $(2m^5n^3)^4$

9. $((q^3)^4)^5$

10. $(2r^4t^5)^3(-4r^2t^5)^2$

11. $\frac{v^7w^3}{v^4w}$

12. $\frac{x^9y^2}{x^3y^6}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

Points (24) _____

Simplify. (2 Points)

13. $\frac{4a^{-3}b^5c^4}{12a^2b^3c^{-2}}$

14. $\frac{-8a^{-5}b^{-4}c^{-6}}{6a^{-8}b^9c^4}$

15. $\left(\frac{-16a^5b^6c^5}{12a^{-1}b^{-3}c^7}\right)^0$

16. $\left(\frac{3a^4b^7c^{-3}}{2a^3b^5c^3}\right)^2$

13. _____

14. _____

15. _____

16. _____

Write in Scientific Notation. (2 Points)

17. 3,760,000

18. .00009017

17. _____

18. _____

Write in Standard Form. (2 Points)

19. 8.26×10^{-3}

20. 8.27×10^7

19. _____

20. _____

21. _____

Determine whether each expression is a polynomial and if so, identify as a monomial, binomial, or trinomial. (2 Points)

21. $3x^2 - 4x + 9$

22. $x^2 - 9$

22. _____

23. _____

24. _____

Find the degree of the polynomial. (2 Points)

23. $2x^6 - 9x^2 + 11$

24. $-4x^9 + 3x^5 - 2x^4$

25. _____

26. _____

Write each polynomial in standard form. (2 Points)

25. $9x + 5x^4 + 13$

26. $7x^2 - 14 + 5x^3 - 8x$

Points (28) _____