

Algebra 1 B

Name _____

Unit 8 Objectives 4 and 5 Practice

Period _____ Date _____

Simplify each expression.

1. $\frac{w^2}{w^7}$

2. $\frac{4^8}{4^5}$

3. $\frac{6^7}{6^6}$

4. $\frac{-9r^5}{15r^7}$

5. $\frac{-81r^2v^5}{9r^7v^2}$

6. $\frac{x^7y^5z^3}{7x^2y^3z}$

7. $\left(\frac{a^7}{b^3}\right)^2$

8. $\left(\frac{-5r^3}{r}\right)^2$

$$9. \frac{2a^4b}{-8a^4b^7}$$

$$10. \frac{6n^8m^4}{42n^3m^2}$$

$$11. \frac{(4mn^2)^3}{12m^3n}$$

$$12. \frac{4x^2y^2z^2}{2x^5y^3z}$$

$$13. \left(\frac{5m^4}{25m}\right)^3$$

$$14. \left(\frac{x^5}{x^2}\right)^2$$

$$15. \left(\frac{-5}{x^3}\right)^2$$

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