

Name:

Unit 6 Day 5 – Quotient Properties of Exponents

Homework

1. $\frac{5^4}{5^1} = 5^3$

2. $\frac{(-2)^8}{(-2)^3} = (-2)^5$

3. $\frac{x^{12}}{x^9} = x^3$

4. $\frac{a^5}{a^2} = a^3$

5. $\frac{x^7 \cdot x}{x^2} = \frac{x^8}{x^2} = x^6$

6. $\left(\frac{3}{5}\right)^3 = \frac{3^3}{5^3}$

7. $\left(\frac{x}{y}\right)^6 = \frac{x^6}{y^6}$

8. $\left(\frac{m^3}{n^5}\right)^2 = \frac{m^6}{n^{10}}$

9. $\frac{3^9}{3^5} = 3^4$

10. $\frac{7^7}{7^2} = 7^5$

11. $x^3 \cdot \frac{1}{x^2} = x^1 = x$

