

Name:



Unit 6 Day 3
Quotient Properties of Exponents Homework

1. $\frac{x^5y}{x} \cdot \frac{1}{y}$ $\frac{x^5y}{xy} = \boxed{x^4}$

2. $\frac{x^5y^5}{x} \cdot \frac{3}{y^2}$ $\frac{3x^5y^5}{xy^2} = \boxed{3x^4y^3}$

3. $\frac{4x^5y}{x} \cdot \frac{3x}{6xy}$ $\frac{12x^6y}{6x^2y} = \boxed{2x^4}$

4. $3x^3y \cdot 6xy^{12}$
 $\boxed{18x^4y^{13}}$

5. $(2x^3y)^5$
 $2^5x^{15}y^5$
 $\boxed{32x^{15}y^5}$

6. $(3xy^2)^3 \cdot x^3y$
 $3^3x^3y^6 \cdot x^3y$
 $3^3x^6y^7$
 $\boxed{27x^6y^7}$

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