

Exponents Quiz Review

NAME _____

Simplify. Assume that no denominator is equal to zero.

___ 1. $(a^5 b^5)(a^5 b^3)$

___ 2. $(-6ki^2 j^4)(3h^3 ij^3)$

___ 3. $(4g^3 h^4)^3$

___ 4. $\frac{(2a^5 b)^2}{24b^6}$

___ 5. $\left(\frac{2a}{a^2}\right)^{-2}$

___ 6. $\frac{36m^{-4} n^6}{4mn^{-2} p^{-4}}$

___ 7. Simplify $y^{10} \cdot y^5$.

___ 8. Simplify $(b^5)^2$.

___ 9. Simplify $\frac{a^7}{a^4}$. Assume the denominator is not equal to zero.

___ 10. Simplify $\frac{m^5 r^2}{m^2 r^3}$. Assume the denominator is not equal to zero.

___ 11. Simplify $(x^7)^3$.

___ 12. Simplify $\frac{36b^4 c^2}{9b^{-1} c^5}$. Assume the denominator is not equal to zero.

___ 13. Simplify $\frac{(3y^4 n^6)^2}{(y^2 n^3)^4}$. Assume the denominator is not equal to zero.

___ 14. Simplify $(m^4)^8$.

___ 15. Simplify $\frac{6n^{-3}y}{2n^{-1}y^{-3}}$. Assume the denominator is not equal to zero.

Simplify the given expression. Assume that no variable equals 0.

___ 16. $\left(\frac{32x^{18}y^{10}}{16x^9y^{20}}\right)^2$