

Powers and Polynomials Quiz Review

Remember: $(a^m)(a^n) = a^{m+n}$

$$(a^m) \div (a^n) = a^{m-n}$$

$$(a^m)^n = a^{mn} \text{ and } \left(\frac{a^m}{b^n}\right)^p = \frac{a^{mp}}{b^{np}}$$

Complete the following as review for the quiz:
p. 101 #4 - 7, 10, 12.

Example One

Simplify the following expression. Leave your answer as an exponential number.

$$\left[\frac{(7^2)^3 7^8}{7^4 7^5}\right]^4$$

Example Two

Simplify the following expression.

$$(9w^4x^3y^8)(7y^{10}w^6y^3)$$