Algebra I
Chapter 10 Review Warm-Up
Properties of Exponents

NAME:_____
DATE:_____ HOUR:____

Complete the following properties.

$b^0 =$ _____

$b^{-n} =$ _____

$b^m \cdot b^n =$ _____

$\frac{b^m}{b^n} =$ _____

$(b^m)^n =$ _____

$(ab)^n =$ _____

$\left(\frac{a}{b}\right)^n =$ _____

In 1–6, choose the best answer.

1. $n^2n^3 =$ _____

(a) n^6 (b) n^5 (c) n^9 (d) n^1

2. $(n^2)^3 =$ _____

(a) n^6 (b) n^5 (c) n^9 (d) n^1

over

3. $\frac{x^6}{x^2} =$ _____

(a) x^8 (b) x^{12} (c) x^3 (d) x^4

4. $\frac{x^a}{x^b} =$ _____

(a) x^{b-a} (b) x^{a-b} (c) $x^{\frac{a}{b}}$ (d) $x^{\frac{b}{a}}$

5. $\frac{x^6}{x^3} =$ _____

(a) x^2 (b) x^3 (c) 2 (d) 1

6. $\left(\frac{m}{n}\right)^2 =$ _____

(a) $\frac{2m}{n}$ (b) $\frac{m}{n}$ (c) $\frac{2m}{2n}$ (d) $\frac{m^2}{n^2}$