

## Quiz 2

MATH 111, SPRING 2015

NAME: \_\_\_\_\_

JANUARY 16, 2015

**Problem 1.**(10 points) Let  $a, b$  be non-zero real numbers and  $m, n$  integers. Fill in the blanks

(i)  $a^0 =$  \_\_\_\_\_,

(ii)  $a^{-n} =$  \_\_\_\_\_,

(iii)  $a^m \cdot a^n =$  \_\_\_\_\_,

(iv)  $\frac{a^m}{a^n}$  \_\_\_\_\_,

(v)  $(a \cdot b)^n$  \_\_\_\_\_,

(vi)  $\left(\frac{a}{b}\right)^n$  \_\_\_\_\_.