Implement [pow(x, n)](http://www.cplusplus.com/reference/valarray/pow/), which calculates x raised to the power n (xn).

**Example 1:**

**Input:** 2.00000, 10

**Output:** 1024.00000

**Example 2:**

**Input:** 2.10000, 3

**Output:** 9.26100

**Example 3:**

**Input:** 2.00000, -2

**Output:** 0.25000

**Explanation:** 2-2 = 1/22 = 1/4 = 0.25

**Note:**

* -100.0 < x < 100.0
* n is a 32-bit signed integer, within the range [−231, 231− 1]