**[Pow(x, n)](https://leetcode.com/problems/powx-n/description/)**

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

**Example 1:**

**Input:** x = 2.00000, n = 10

**Output:** 1024.00000

**Example 2:**

**Input:** x = 2.10000, n = 3

**Output:** 9.26100

**Example 3:**

**Input:** x = 2.00000, n = -2

**Output:** 0.25000

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

**Constraints:**

* -100.0 < x < 100.0
* -231 <= n <= 231-1
* n is an integer.
* -104 <= xn <= 104