

QUIZ 4

1. Write a function *integerPower(base, exponent)* that returns the value of

$\text{base}^{\text{exponent}}$

For example, *integerPower(3, 4)*=3*3*3*3. Be sure that *exponent* is a positive, nonzero integer, and *base* is an integer. Function *integerPower* should use **for** to control the calculation. Do not use any math library functions.

2. Define a function called *hypotenuse* that calculates the length of hypotenuse of a right triangle when the other two sides are given. Use this function in a program to determine the length of the hypotenuse. The function should take two arguments of type *double* and return the hypotenuse as a *double*.