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# ShowSimpleMath.py

""" Module contains a script that uses the built-in
module
math and the user-written module SimpleMath.

It compares the accuracy of the SimpleMath
functions sqrt,
cos, and sin with their counterparts in the math module"""


import math
import SimpleMath

# Check out the square root function
x = input(' Compute the
square root of x = ')
MySqrt = SimpleMath.sqrt(x)
TrueSqrt = math.sqrt(x)
print
'SimpleMath.sqrt(x) = %12.8f\n      math.sqrt(x) = %12.8f \n' % (MySqrt,TrueSqrt)

theta =
input('theta (degrees) = ')
theta = (math.pi*theta)/180
MyCos = SimpleMath.cos(theta)
TrueCos =
math.cos(theta)
MySin = SimpleMath.sin(theta)
TrueSin = math.sin(theta)
print
'SimpleMath.cos(theta) = %12.8f\n      math.cos(theta) = %12.8f ' % (MyCos,TrueCos)
print
'SimpleMath.sin(theta) = %12.8f\n      math.sin(theta) = %12.8f ' % (MySin,TrueSin)
```