**Test of Cylinder:**

Volume = height \* pi \* (radius \* radius)

Surface Area = 2.0 \* pi \* (radius \* (radius \* height))

Radius: 2

Height: 1

Volume: 12.566

1\*pi\* (2\*2) = 4pi

Surface Area: 25.1327

2\*pi\*(2\*(2\*1) = 8pi

Radius: 1

Height: 3

Volume: 9.425

3\*pi\* (1\*1) = 3pi

Surface Area: 18.849

2\*pi\*(1\*(1\*3) = 6pi

Radius: 5

Height: 2

Volume: 157.079

2\*pi\* (5\*5) = 50pi

Surface Area: 314.1592

2\*pi\*(5\*(5\*2) = 100pi