COMP 1231: Assignment 1 Test Exhibit

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Cone[radius = 2.0, height = 4.0]       Surface area: 40.67 Volume: 16.76
Cone[radius = 0.01, height = 9.0]      Surface area: 0.2831 Volume: 0.0009425
Cone[radius = 2.0, height = 3.111]     Surface area: 35.80 Volume: 13.03
Cone[radius = 1.55, height = 9.67]     Surface area: 55.24 Volume: 24.33
Cone[radius = 5.0, height = 10.0]      Surface area: 254.2 Volume: 261.8
Cone[radius = 2.5, height = 2.5]       Surface area: 47.40 Volume: 16.36
Cone[radius = 4.444, height = 0.0]     Surface area: 124.1 Volume: 0.000
Cone[radius = 0.0, height = 5.0]       Surface area: 0.000 Volume: 0.000
Error: radius is less than 0, radius unchaged
Cone[radius = 0.0, height = 1.8]       Surface area: 0.000 Volume: 0.000

Cube[length = 2.5]      Surface area: 37.50 Volume: 15.63
Cube[length = 156.0]    Surface area: 1.460e+05 Volume: 3.796e+06
Cube[length = 0.0]      Surface area: 0.000 Volume: 0.000
Cube[length = 5.0]      Surface area: 150.0 Volume: 125.0
Cube[length = 3.0]      Surface area: 54.00 Volume: 27.00
Cube[length = 0.001]    Surface area: 6.000e-06 Volume: 1.000e-09
Cube[length = 100.0]    Surface area: 6.000e+04 Volume: 1.000e+06
Cube[length = 34.65]    Surface area: 7204 Volume: 4.160e+04
Cube[length = 12.12]    Surface area: 881.4 Volume: 1780

Cylinder[radius = 2.0, height = 4.0]    Surface area: 75.40 Volume: 50.27
Cylinder[radius = 10.0, height = 5.0]   Surface area: 942.5 Volume: 1571
Cylinder[radius = 2.0, height = 44.0]   Surface area: 578.1 Volume: 552.9
Cylinder[radius = 5.0, height = 4.8]    Surface area: 307.9 Volume: 377.0
Cylinder[radius = 10.0, height = 99.0]  Surface area: 6849 Volume: 3.110e+04
Cylinder[radius = 45.0, height = 10.0]  Surface area: 1.555e+04 Volume: 6.362e+04
Cylinder[radius = 4.5, height = 10.0]   Surface area: 410.0 Volume: 636.2
Error: radius is less than 0, radius unchaged
Cylinder[radius = 4.5, height = 2.4]    Surface area: 195.1 Volume: 152.7
Cylinder[radius = 10.0, height = 10.0]  Surface area: 1257 Volume: 3142

Sphere[radius = 4.0]    Surface area: 201.1 Volume: 268.1
Sphere[radius = 2.0]    Surface area: 50.27 Volume: 33.51
Sphere[radius = 1.8]    Surface area: 40.72 Volume: 24.43
Sphere[radius = 0.0]    Surface area: 0.000 Volume: 0.000
Error: radius is less than 0, radius unchaged
Sphere[radius = 0.0]    Surface area: 0.000 Volume: 0.000
Sphere[radius = 12.69]  Surface area: 2024 Volume: 8560
Sphere[radius = 8.88]   Surface area: 990.9 Volume: 2933
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