# TEST CASES:

Attach a separate document (word or excel will do) that shows your hand calculations for the surface area and volume of these two pyramids:

#1: Height: 5.0’ Base: 2.5’

#2: Height: 2.5’ Base: 4.3’

Show your work, not just the results. Use these test cases to test your program and verify it is returning the correct results.

**#1 >>>**

base\_area = a >>> 2.5^2 **a = 6.25**  
height = h >>> **h = 5**  
slant = s >>> =sqrt(52 + (6.25/2)2)   
>> (6.25/2)2 = 9.766   
9.766 + 5^2 = 34.766  
Sqrt ( 34.766 ) =   
**s = 5.896**

**Area of 1 side =** 5.896 \* 6.25/2 **= 18.425  
Area of all 4 sides** = 18.425 \* 4 **= 73.7**

**Volume =** 6.25 \* (5/3) **= 10.42**

**#2 >>>**

base\_area = a >>> 4.3^2 **a = 18.49**  
height = h >>> **h = 2.5**  
slant = s >>> =sqrt(4.32 + (18.49/2)2)   
>> (18.49/2)2 = 85.47   
85.47 + 2.5^2 = 91.72  
Sqrt ( 91.72 ) = 9.577  
**s = 9.577**

**Area of 1 side =** 9.577 \* 18.49/2 **= 88.54  
Area of all 4 sides = 18.425 \* 4 = 354.1**

**Volume = 18.425 \* (2.5/3) = 15.41**