Python Program 1 Test cases:

#1: Height: 5.0”, Base: 2.5”

Surface Area = Base area + 4 \* ((slant \* base)/2)

Base area = 2.5 \* 2.5 = 6.25

Slant = square root of ½ of base squared + height squared.

square root of 1.25 squared + height squared

square root of 1.5625 + 25

square root of 26.5625

5.15388203202

Slant \* base / 2 = 5.15355203202 \* 2.5 / 2

12.88470508005 / 2

6.442352540025

Area of all 4 faces = 4 \* 6.442352540025

25.7694101601

Surface Area = 6.25 + 25.4694101601

**32.0194101601**

Volume = (base area \* height) / 3

(6.25 \* 5) / 3

31.25 / 3

**10.4166666667**

#2: Height: 2.5”, Base: 4.3”

Surface Area = Base area + 4 \* ((slant \* base)/2)

Base area = 4.3 \* 4.3 = 18.49

Slant = square root of ½ of base squared + height squared.

square root of 2.15 squared + height squared

square root of 4.6225 + 6.25

square root of 10.8725

3.29734741876

Slant \* base / 2 = 3.29734741876 \* 4.3 / 2

14.178593900668 / 2

7.08929695033

Area of all 4 faces = 4 \* 7.08929695033

28.357187801336

Surface Area = 18.49 + 28.357187801336

**46.8471878013**

Volume = (base area \* height) / 3

(18.49 \* 2.5) / 3

46.225 / 3

**15.4083333333**