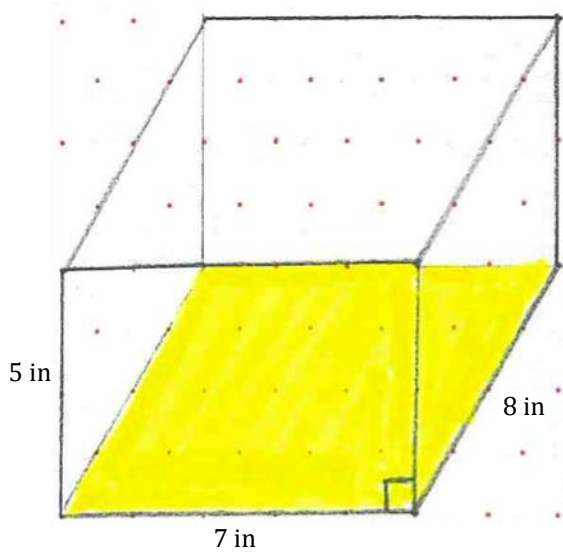


Name: \_\_\_\_\_

# MATH 1500: Ch 5, 8, & 9 Test

Find the surface area and volume of the following prisms.

## 1. Rectangular Prism



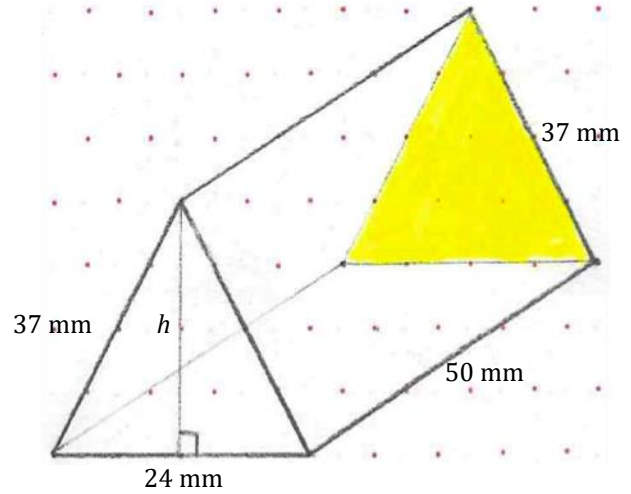
Area of the Base: \_\_\_\_\_

Volume: \_\_\_\_\_

Perimeter of Base: \_\_\_\_\_

Surface Area: \_\_\_\_\_

## 2. Triangular Prism



Height of Base: \_\_\_\_\_

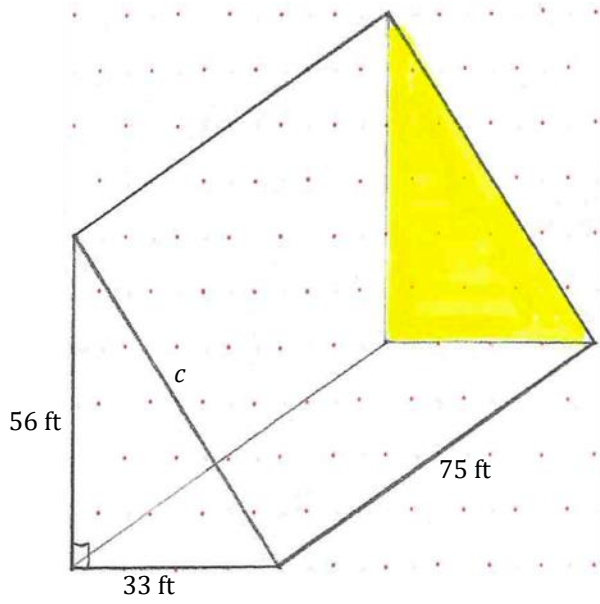
Area of the Base: \_\_\_\_\_

Volume: \_\_\_\_\_

Perimeter of Base: \_\_\_\_\_

Surface Area: \_\_\_\_\_

3. Triangular Prism



Area of the Base: \_\_\_\_\_

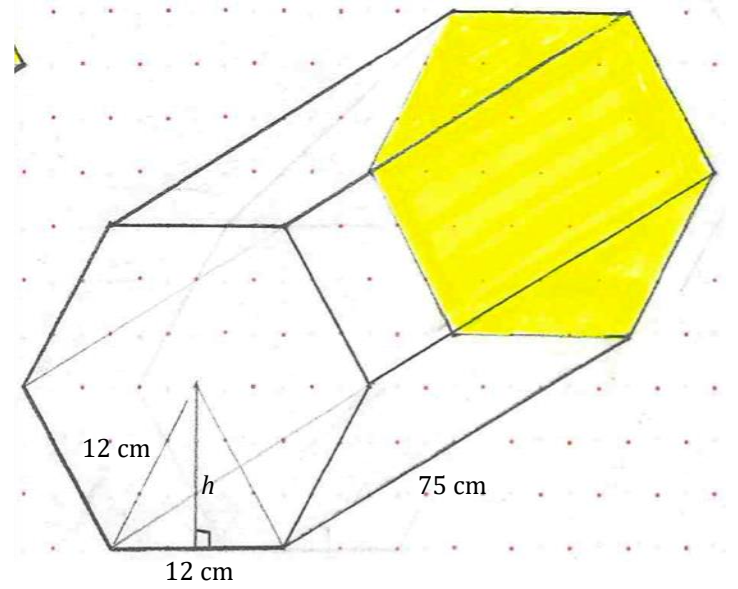
Volume: \_\_\_\_\_

$c$ : \_\_\_\_\_

Perimeter of Base: \_\_\_\_\_

Surface Area: \_\_\_\_\_

4. Hexagonal Prism (Base is a regular hexagon.)



$h$ : \_\_\_\_\_

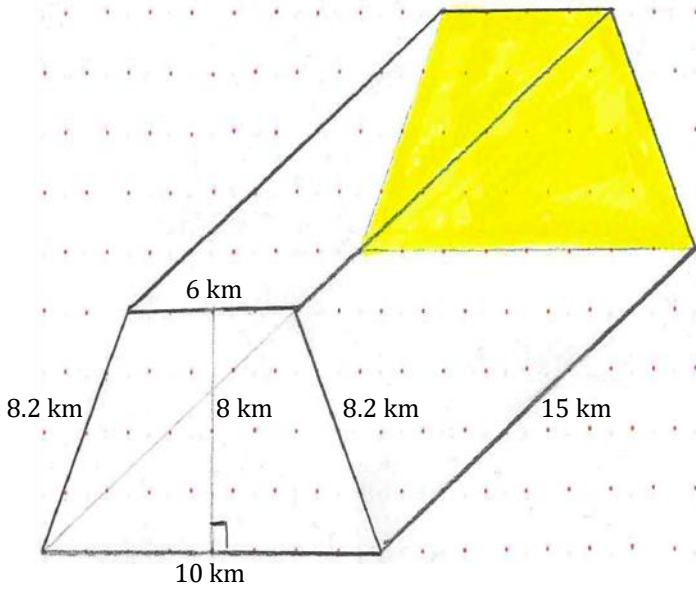
Area of the Base: \_\_\_\_\_

Volume: \_\_\_\_\_

Perimeter of Base: \_\_\_\_\_

Surface Area: \_\_\_\_\_

5. Trapezoidal Prism



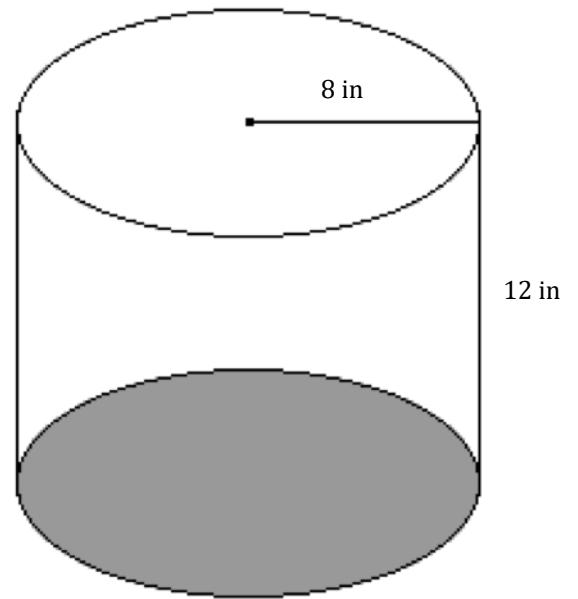
Area of the Base: \_\_\_\_\_

Volume: \_\_\_\_\_

Perimeter of Base: \_\_\_\_\_

Surface Area: \_\_\_\_\_

6. Cylinder



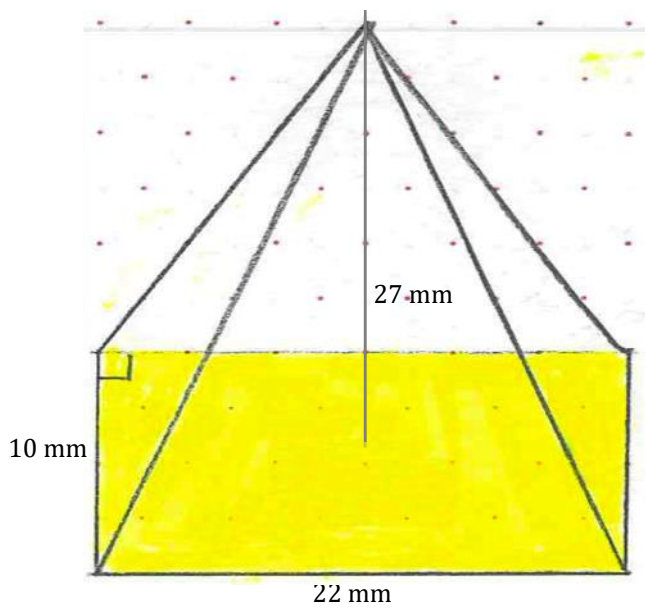
Area of the Base: \_\_\_\_\_

Volume: \_\_\_\_\_

Perimeter of Base: \_\_\_\_\_

Surface Area: \_\_\_\_\_

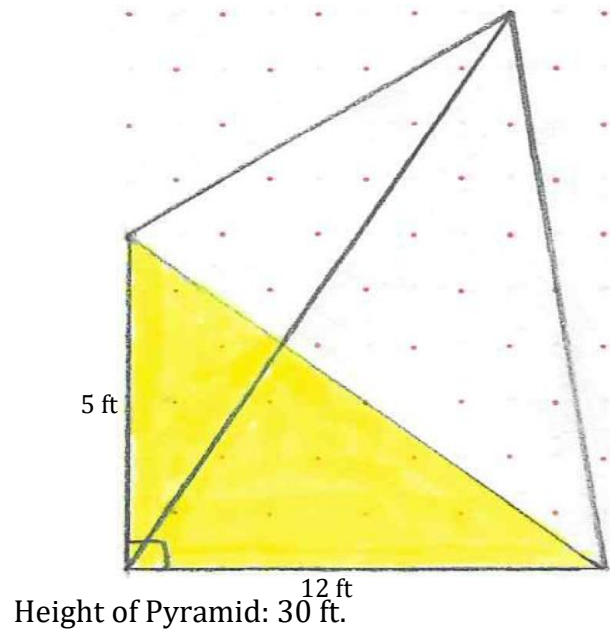
7. Rectangular Pyramid



Area of the Base: \_\_\_\_\_

Volume: \_\_\_\_\_

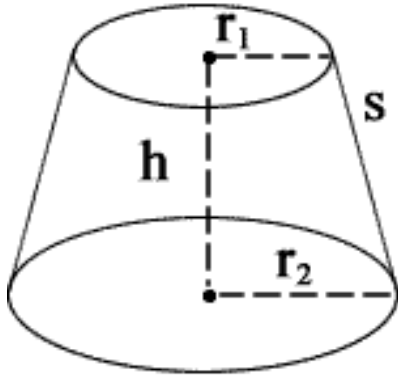
8. Triangular Pyramid



Area of the Base: \_\_\_\_\_

Volume: \_\_\_\_\_

9. Frustum (Bases are circles.)



$h = 15$  in.  
 $r_1 = 8$  in.  
 $r_2 = 12$  in  
 $s = 15.5$  in

Volume: \_\_\_\_\_

Area Top: \_\_\_\_\_

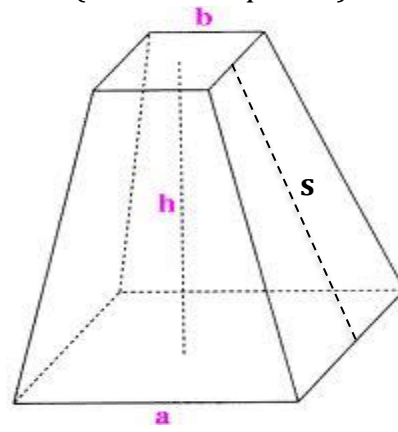
Area Bottom: \_\_\_\_\_

Perimeter of Top: \_\_\_\_\_

Perimeter of Bottom: \_\_\_\_\_

Surface Area: \_\_\_\_\_

10. Frustum (Bases are squares.)



$h = 20$  cm  
 $b = 3$  cm  
 $a = 15$  cm  
 $s = 19.4$  cm

Volume: \_\_\_\_\_

Area Top: \_\_\_\_\_

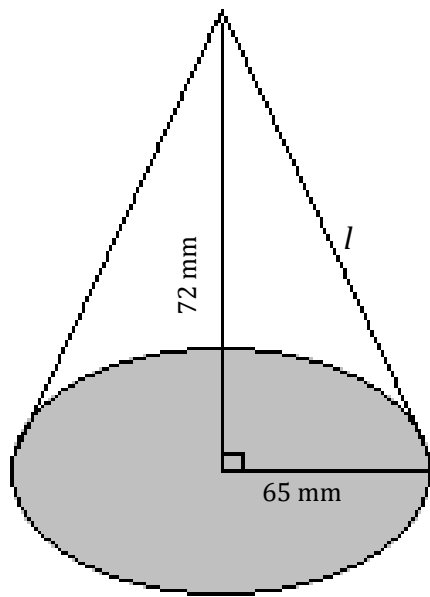
Area Bottom: \_\_\_\_\_

Perimeter of Top: \_\_\_\_\_

Perimeter of Bottom: \_\_\_\_\_

Surface Area: \_\_\_\_\_

11. Cone

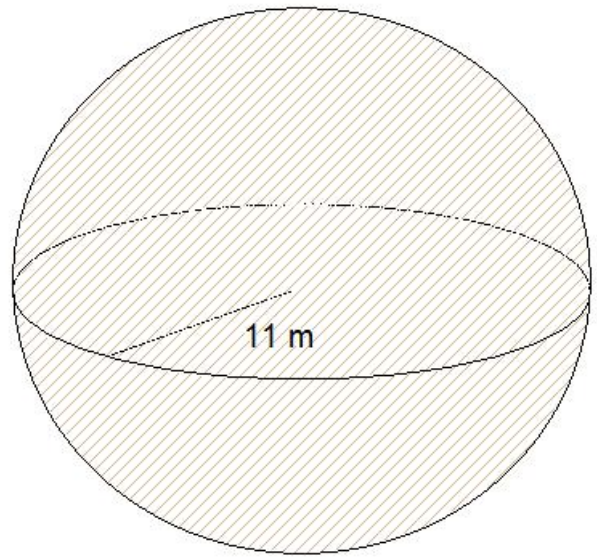


Volume: \_\_\_\_\_

$l$ : \_\_\_\_\_

Surface Area: \_\_\_\_\_

12. Sphere



Volume: \_\_\_\_\_

Surface Area: \_\_\_\_\_