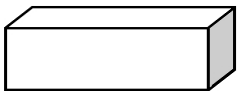
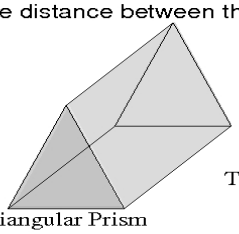
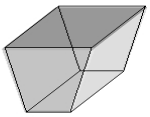
MGF 1106 – Section 9.4 Volume

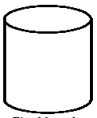
Prisms: Two congruent bases, and the sides are rectangles
****Volume** of a Prism = Bh where B = area of one base and
h = the distance between the two bases

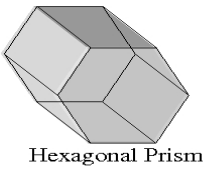
Samples:

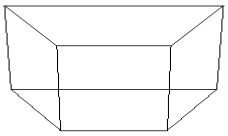

Rectangular Prism

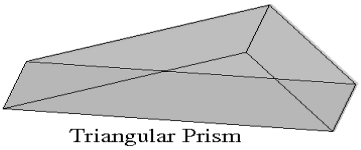

Triangular Prism


Trapezoidal Prism


Cylinder
(Circular Prism)

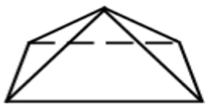

Hexagonal Prism

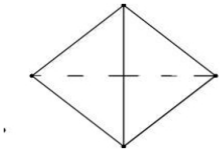

Trapezoidal Prism

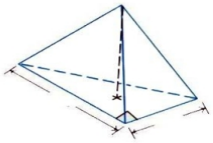

Triangular Prism

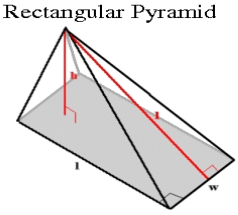
PYRAMIDS – One base – "point" at the top – sides are triangles
**Volume of a Pyramid = $\frac{1}{3}$Bh where B = area of the base and
h = perpendicular distance from the base to the point

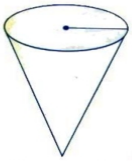
Samples:

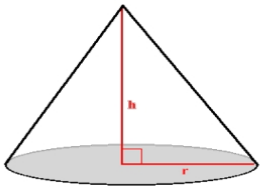

Rectangular Pyramid


Triangular Pyramid


Right Triangular Pyramid


Rectangular Pyramid


Cone (Circular Pyramid)


Cone (Circular Pyramid)

Spheres –
Volume = $\frac{4}{3}\pi r^3$