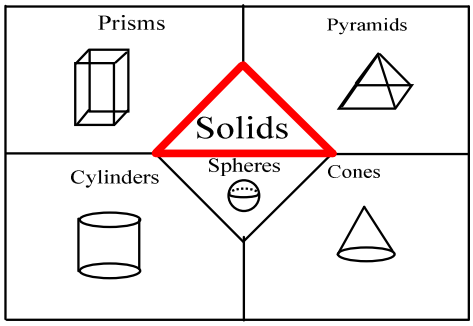
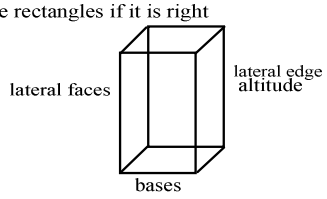


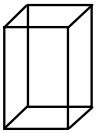
Prisms

-2 congruent / parallel polygon bases
-sides are parallelograms
-sides are rectangles if it is right



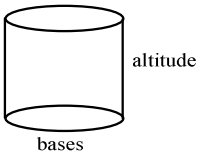
V = Bh or

S.A. = ph + 2B or



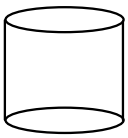
Cylinders

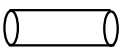
-2 congruent / parallel circle bases
-no polygons sides
-side opens to a rectangle



V = Bh or

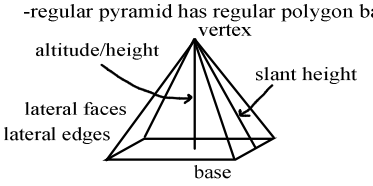
S.A. = Ch + 2B or





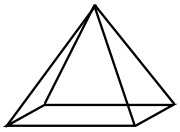
Pyramids

-1 polygon base
-triangular sides
-regular pyramid has regular polygon base



V = (1/3)Bh or

S.A. = (1/2)pl+B or



Pyramid formula practice

Find the volume of these square based pyramids

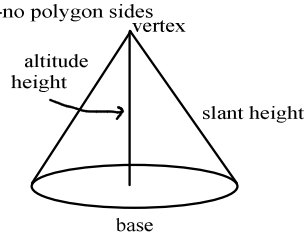
1.) height = 10, base edge = 5
2.) height = 12, base edge = 8
3.) height = 20, base edge = 24

Find the surface area of the following square based pyramids:

4.) base edge = 10, slant height = 15
5.) base edge = 13, slant height = 12
6.) base edge = 21, slant height = 30

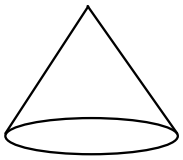
Cones

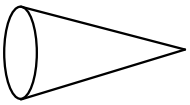
-1 circle base
-no polygon sides



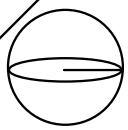
V = $(1/3)Bh$ or

S.A. = $(1/2)Cl + B$ or





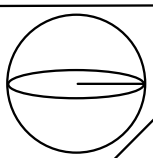
Spheres



-3 dimensional circle
-set of points in space equidistant from common center

V = $(4/3)\pi r^3$

S.A. = $4\pi r^2$



Find the volume of the following cones

1.) r = 4, h = 15
2.) r = 6, h = 11
3.) r = 9, h = 20

Find the surface area of the following cones

4.) r = 10, l = 20
5.) r = 7, l = 18

Find the surface area and volume of the following spheres

6.) r = 18
7.) r = 8