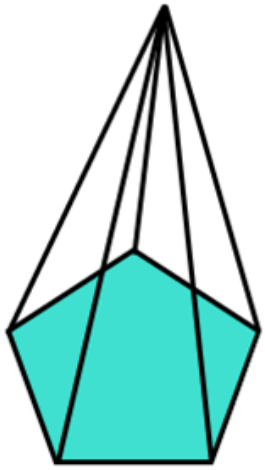
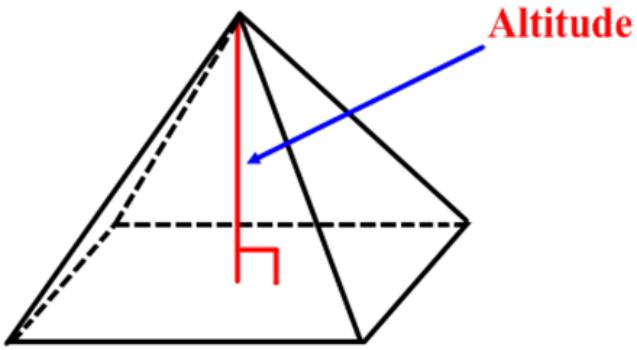
Def. Pyramid

A solid with 1 base whose lateral faces are triangles and intersect at a point called the VERTEX.



Altitude of a Pyramid

A segment from the vertex that is ⊥ to the base.



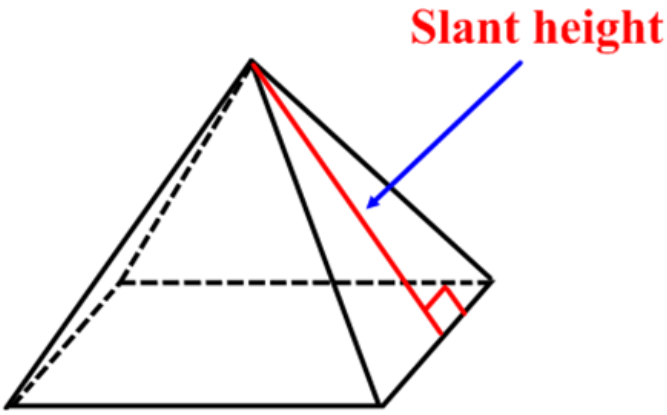
Def. Regular Pyramid

A pyramid whose altitude goes from the vertex to the center of the base.

The Lateral Faces are ≅ isosceles triangles.

Slant height of a Regular Pyramid

The height of each lateral face of a regular pyramid.



Lateral Area of a Regular Pyramid

$$L = \frac{1}{2}Pl$$

Where L is the Lateral Area,
P is the PERIMETER of the BASE,
l is the SLANT HEIGHT of the pyramid.

Surface Area of a Regular Pyramid

$$S = \frac{1}{2} P l + B$$

Where S is the Surface Area,
P is the PERIMETER of the BASE,
l is the SLANT HEIGHT of the pyramid
B is the AREA of the BASE

Def. Cone

A solid with exactly 1 circular base and whose lateral face intersects at a point called the VERTEX

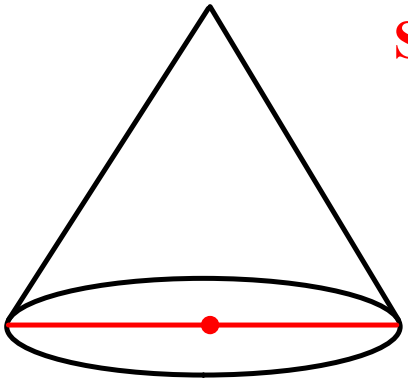
Right Cone

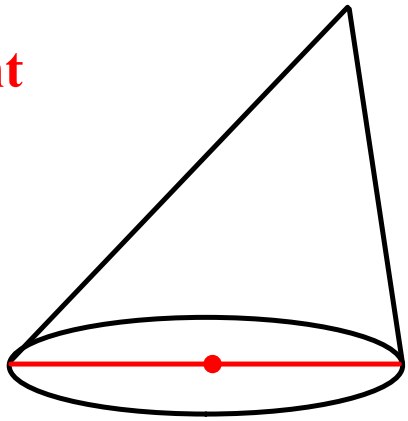
Oblique Cone

Axis

Slant Height

Altitude





Lateral Area of a Right Cone

$$L = \pi rl$$

Where L is the Lateral Area,
r is the RADIUS of the BASE,
l is the SLANT HEIGHT

Surface Area of a Right Cone

$$S = \pi rl + \pi r^2$$

Where S is the Surface Area,
r is the RADIUS of the BASE,
l is the SLANT HEIGHT