

RELEASED MATERIALS. MAY BE DUPLICATED.

Lateral Area, Surface Area & Volume

P = perimeter of base*B* = area of base

l = slant height

Rectangle: A = bhCircle: $A = \pi r^2$ Triangle: $A = \frac{bh}{2}$ Trapezoid: $A = \frac{h(b_1+b_2)}{2}$ Lateral Area of a Prism: LA = PHSurface Area of a Prism: SA = PH + 2B

Lateral Area of a Cylinder: $LA = 2\pi r H$ Surface Area of a Cylinder: $SA = 2\pi r H + 2\pi r^2$

Lateral Area of a Pyramid: $LA = \frac{Pl}{2}$ **Surface Area of a Pyramid:** $SA = \frac{Pl}{2} + B$

Volume of a Prism:V = BHVolume of a Cylinder: $V = \pi r^2 H$ Volume of a Cone: $V = \frac{\pi r^2 H}{3}$ Volume of a Pyramid: $V = \frac{BH}{3}$ Volume of a Sphere: $V = \frac{4\pi r^3}{3}$

Lateral Area of a Cone: $LA = \pi r l$ Surface Area of a Cone: $SA = \pi r l + \pi r^2$

Surface Area of a Sphere: $SA = 4\pi r^2$



Secant & Tangent Segment Lengths





