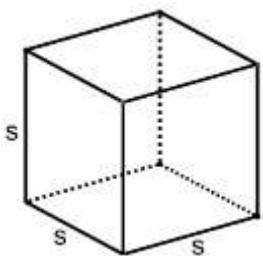


Volume (V) and Surface Area (SA)

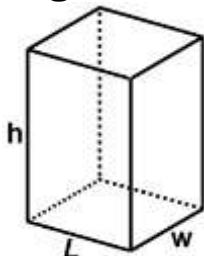
Cube



$$V = s^3$$

$$SA = 6s^2$$

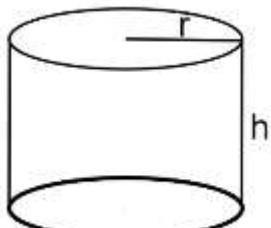
Rectangular Prism



$$V = l \cdot w \cdot h$$

$$SA = 2(lw + lh + wh)$$

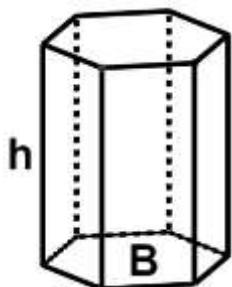
Cylinder



$$V = \pi r^2 h$$

$$SA = 2\pi r^2 + 2\pi rh$$

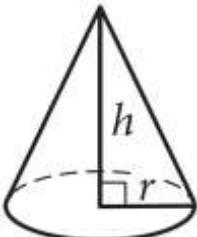
Regular Prism



$$V = B \cdot h$$

$$SA = 2B + P \cdot h$$

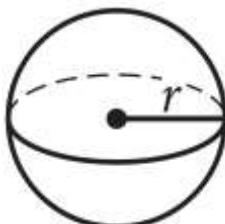
Cone



$$V = \frac{1}{3} \pi r^2 h$$

$$SA = \pi r^2 + \pi r^2 \sqrt{r^2 + h^2}$$

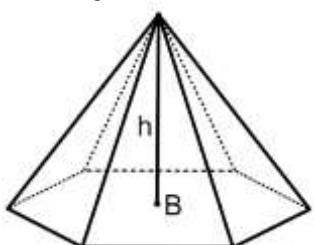
Sphere



$$V = \frac{4}{3} \pi r^3$$

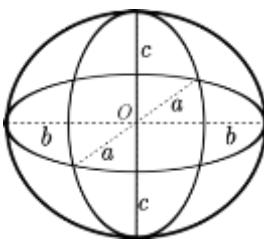
$$SA = 4\pi r^2$$

Pyramid



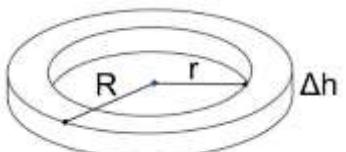
$$V = \frac{1}{3} B \cdot h$$

Ellipsoid



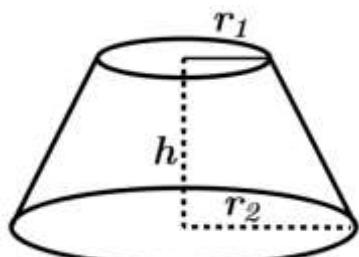
$$V = \frac{4}{3} \pi abc$$

Washer



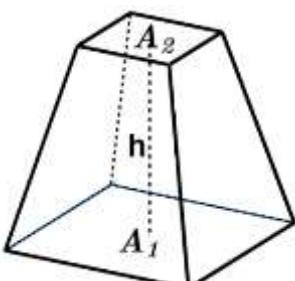
$$V = \pi(R^2 - r^2)\Delta h$$

Frustum of a Cone



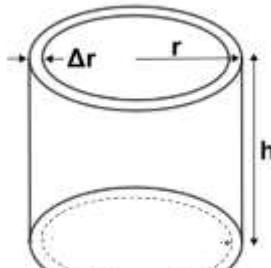
$$V = \frac{1}{3}\pi(r_1^2 + r_2^2 + r_1r_2)h$$

Frustum of a Pyramid



$$V = \frac{1}{3}\pi(A_1 + A_2 + \sqrt{A_1A_2})h$$

Cylindrical Shell



$$V = 2\pi r h \cdot \Delta r$$