

Volume

Raise My
MA **rks**

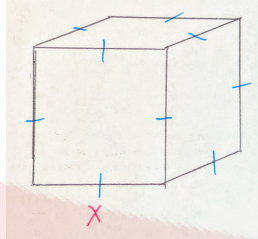
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2020

Volumes

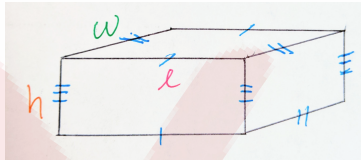
Cube The volume of a cube is

$$V = x^3.$$



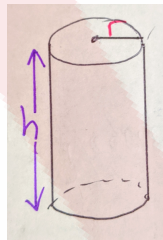
Rectangular Prism The volume of a rectangular prism is

$$V = lwh.$$



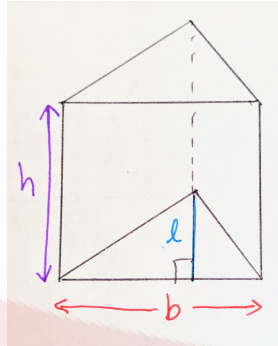
Cylinder The volume of a cylinder is

$$V = \pi r^2 h = \text{base area} \times \text{height}$$



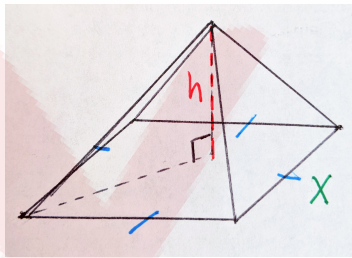
Prism The volume of a prism is

$$V = \frac{1}{2}bh = \text{base area} \times \text{height}$$



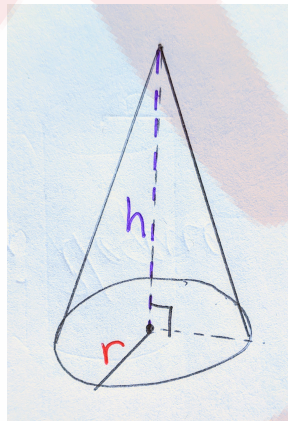
Pyramid The volume of a pyramid is

$$V = \frac{1}{3}x^2h = \frac{1}{3} = \text{base area} \times \text{height}$$



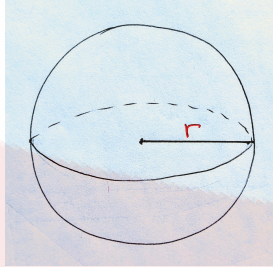
Cone The volume of a cone is

$$V = \frac{1}{3}\pi r^2h = \frac{1}{3} = \text{base area} \times \text{height}$$



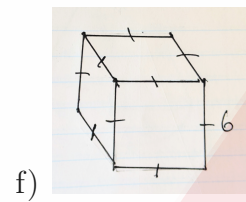
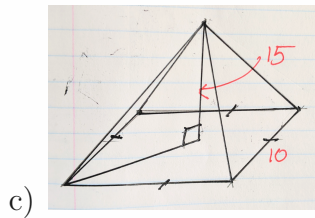
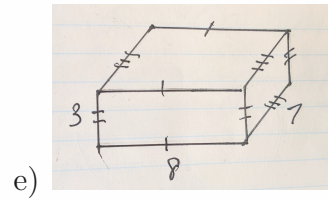
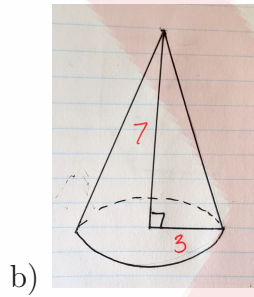
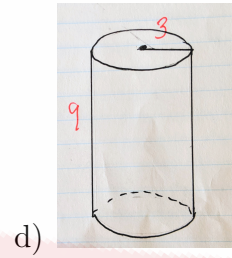
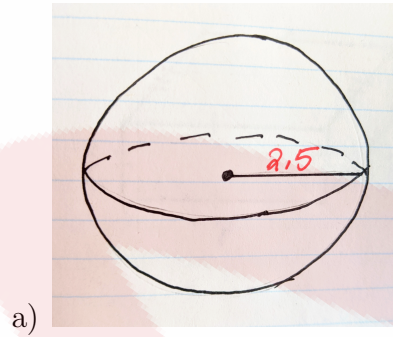
Sphere The volume of a sphere is

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

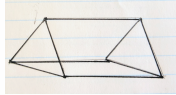
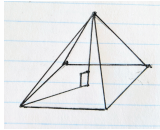
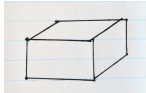
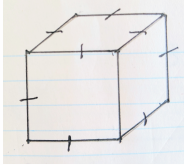


Exercises

1. Find the volume of the following shapes:



2. Match the volume equation with the shape.



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

$$lhw$$

$$\frac{1}{2}blh$$

$$\frac{1}{3}x^3 h$$

$$x^2$$

$$\pi r^2 h$$

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