Surface Area and Volume Equations for 3-Dimensional Figures

Cube

\[ Surface\ Area = 6s^2 \]
\[ Volume = s^3 \]

Rectangular Prism

\[ Surface\ Area = 2lw + 2lh + 2wh \]
\[ Volume = lwh \]

Pyramid

\[ Volume = \frac{1}{3} Bh \]
\[ B = \text{area of the base} \]
Cone

\[ Volume = \frac{1}{3}\pi r^2 h \]

Cylinder

\[ Surface\ Area = 2\pi r(r + h) \]
\[ Volume = \pi r^2 h \]

Sphere

\[ Surface\ Area = 4\pi r^2 \]
\[ Volume = \frac{4}{3}\pi r^3 \]