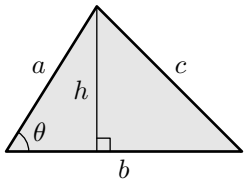
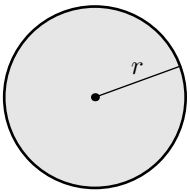
Triangle



Area: $A = \dfrac{bh}{2}, \quad h = a\sin\theta$

Law of Cosines: $c^2 = a^2 + b^2 - 2ab\cos\theta$

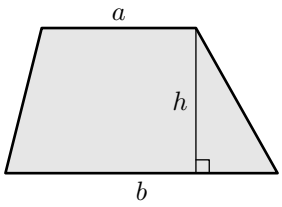
Circle



Area: $A = \pi r^2$

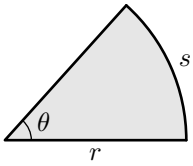
Circumference: $C = 2\pi r$

Trapezoid



Area: $A = \dfrac{(a+b)h}{2}$

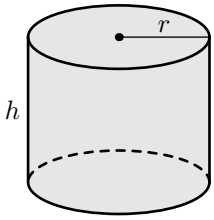
Sector of a Circle



Area: $A = \dfrac{1}{2}\theta r^2, \quad \theta$ in **radians**

Arc length: $s = r\theta$

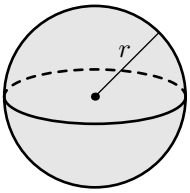
Right Circular Cylinder



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

Surface Area: $S = 2\pi r^2 + 2\pi rh$

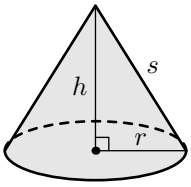
Sphere



Volume: $V = \dfrac{4}{3}\pi r^3$

Surface Area: $S = 4\pi r^2$

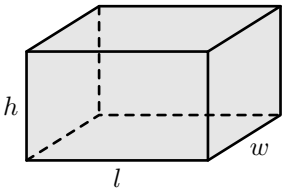
Right Circular Cone



Volume: $V = \dfrac{\pi r^2 h}{3}$

Surface Area: $S = \pi r^2 + \pi rs$

Rectangular Solid



Volume: $V = lwh$

Surface Area: $S = 2lw + 2lh + 2wh$