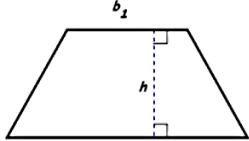
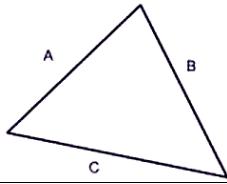
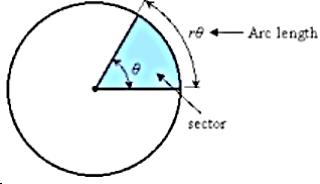
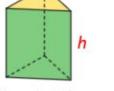
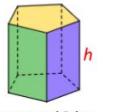
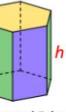
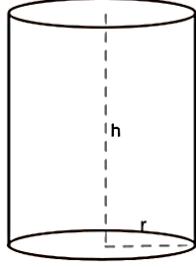
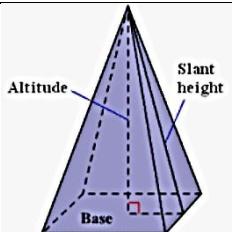


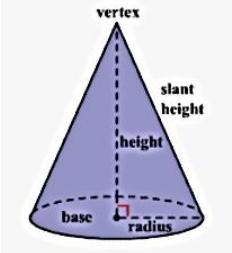
MTH 111 Geometry Formulas
Fall 2020

Shape	Perimeter	Area
 Trapezoid		$A = \frac{1}{2}h(b_1 + b_2)$
 Triangle		$A = \sqrt{s(s - a)(s - b)(s - c)}$ $s = \frac{1}{2}(a + b + c)$
 Sector	$s = r\theta$	$A = \frac{1}{2}r^2\theta$
Shape	Surface Area	Volume
 Triangular Prism $V = \text{area of triangle} \times h$		
 Rectangular Prism $V = \text{area of rectangle} \times h$		
 Pentagonal Prism $V = \text{area of pentagon} \times h$		$V = B_{\text{area}}h$
 Hexagonal Prism $V = \text{area of hexagon} \times h$		
Prism		
 Cylinder	$SA = 2\pi rh + 2\pi r^2$	$V = \pi r^2 h$



Pyramid

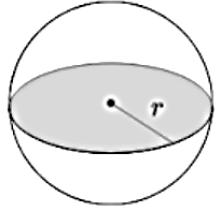
$$V = \frac{1}{3} B_{area} h$$



Cone

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

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



Sphere

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

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