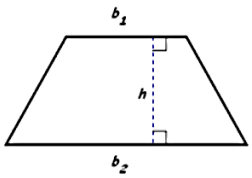
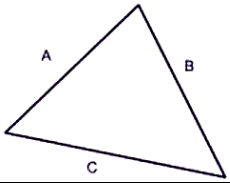
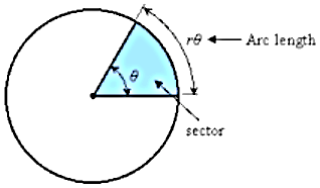
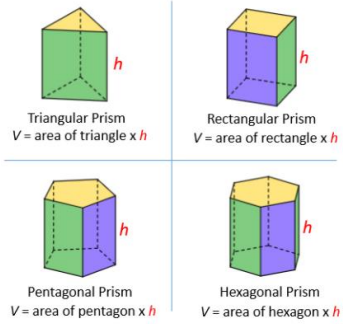
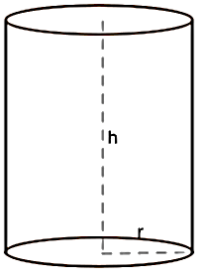
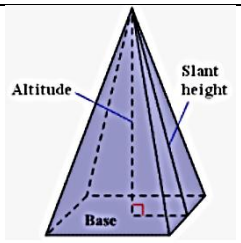
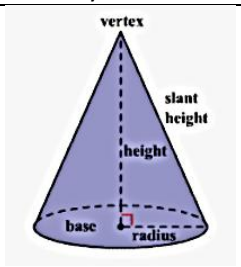
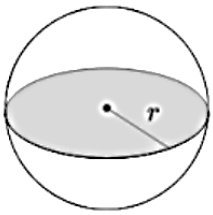
MTH 111 Geometry Formulas
Fall 2020

Shape	Perimeter	Area
 Trapezoid		$A = \frac{1}{2}h(b_1 + b_2)$
		$A = \sqrt{s(s-a)(s-b)(s-c)}$ $s = \frac{1}{2}(a+b+c)$
	$s = r\theta$	$A = \frac{1}{2}r^2\theta$
Shape	**Surface Area**	**Volume**
 Prism		$V = B_{area}h$
 Cylinder	$SA = 2\pi rh + 2\pi r^2$	$V = \pi r^2 h$

 Pyramid		$V = \frac{1}{3}B_{area}h$
 Cone	$SA = \pi r^2 + \pi rs$	$V = \frac{1}{3}\pi r^2 h$
 Sphere	$SA = 4\pi r^2$	$V = \frac{4}{3}\pi r^3$