

Formulas for the 2nd Semester Final Exam

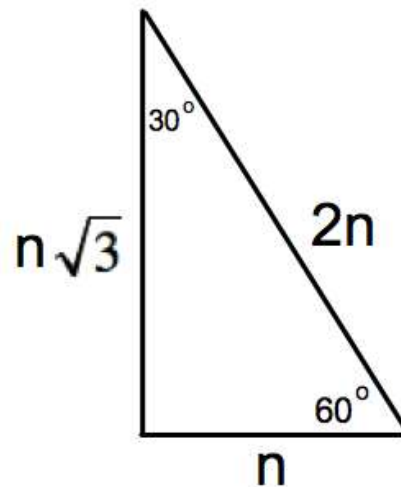
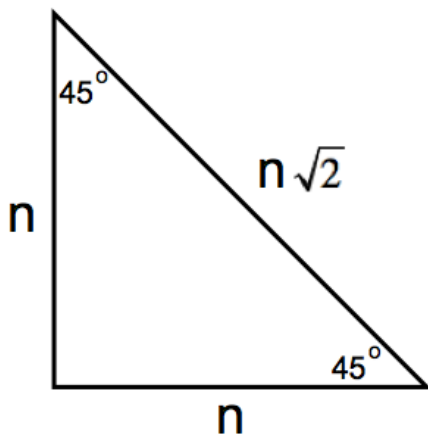
Area of Parallelogram: bh

Area of Triangle: $\frac{1}{2}bh$ or $\frac{bh}{2}$

Area of a Regular Polygon: $\frac{1}{2}ap$ or $\frac{ap}{2}$

Pythagorean Theorem: $a^2 + b^2 = c^2$

Special Right Triangle Ratios:



Circumference of Circle: πd or $2\pi r$

Arc Length of a Circle: $\frac{mAB \cdot 2\pi r}{360^\circ}$

Area of a Circle: πr^2

Area of a Sector of a Circle: $\frac{mAB \cdot \pi r^2}{360^\circ}$

Surface Area

Prism:	$2B + ph$
*Rectangular Prism:	$2lw + 2lh + 2wh$
Cylinder:	$2\pi r^2 + 2\pi rh$
Pyramid:	$B + \frac{1}{2}p\ell$
Cone:	$\pi r^2 + \pi r\ell$
Sphere:	$4\pi r^2$

Volume

Bh
lwh
$\pi r^2 h$
$\frac{1}{3}Bh$
$\frac{1}{3}\pi r^2 h$
$\frac{4}{3}\pi r^3$

p = perimeter of base

B = area of base

ℓ = slant height

h = height

w = width

l = length

r = radius

SOH CAH TOA