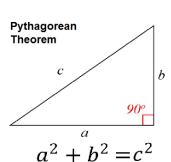
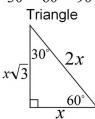
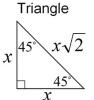
Right Triangles



$30^{\circ} - 60^{\circ} - 90^{\circ}$



$$45^{\circ}-45^{\circ}-90^{\circ}$$

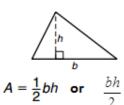


Trig Functions SOHCAHTOA

Sin
$$x^{\circ} = \frac{Opposite \ leg}{Hypotenuse}$$
Cos $\mathbf{x}^{\circ} = \frac{Adjacent \ leg}{Hypotenuse}$
Tan $x^{\circ} = \frac{Opposite \ leg}{Adjacent \ leg}$

Area Formulas

Triangle

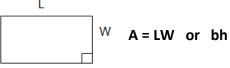


Square

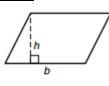


$A = s^2$

Rectangle

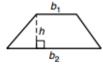


Parallelogram



$$A = bh$$

Trapezoid



$$A = \frac{1}{2}(b_1 + b_2)h$$

Kite



$$A = \frac{1}{2}d_1d_2$$

*diagonals ⊥

Rhombus

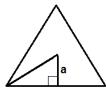


$$A = \frac{1}{2}d_1d_2$$

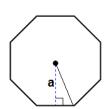
- *4≅ sides
- * diagonals $oldsymbol{\perp}$ and bisect

Area Regular Polygon









Circles

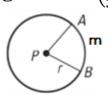
Circumference:

 πd

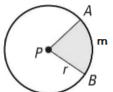
or

 $2\pi r$

Arc length = $2\pi r \left(\frac{m^{\circ}}{360^{\circ}}\right)$







<u>Area:</u>

 πr^2

Segment of a Circle









Converting:

Radians to Degrees $\underline{180}$

 π

Degrees to Radians $\frac{\pi}{180}$