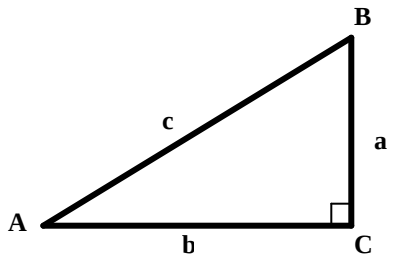
Right Triangles



$A+B+C=180^0$		K=Area
Pythagorean Theorem		$a^2+b^2=c^2$
A and B are complementary angles		
$\sin A=\cos B$	$\tan A=\cot B$	$\sec A=\csc B$
$\cos A=\sin B$	$\cot A=\tan B$	$\csc A=\sec B$
Given	**To Find**	**Equation**
a, c	A, B, b, K	$\sin A=\frac{a}{c}$ $\cos B=\frac{a}{c}$ $b=\sqrt{c^2-a^2}$ $K=\frac{a}{2}\sqrt{c^2-a^2}$
a, b	A, B, c, K	$\tan A=\frac{a}{b}$ $\tan B=\frac{b}{a}$ $c=\sqrt{a^2+b^2}$ $K=\frac{ab}{2}$
A, a	B, b, c, K	$B=90^0-A$ $b=a\times\cot A$ $c=\frac{a}{\sin A}$ $k=\frac{a^2\times\cot A}{2}$
A, b	B, a, c, K	$B=90^0-A$ $a=b\times\tan A$ $c=\frac{b}{\cos A}$ $K=\frac{b^2\times\tan A}{2}$
A, c	B, a, b, K	$B=90^0-A$ $a=c\times\sin A$ $b=c\times\cos A$ $K=\frac{c^2\times\sin 2A}{4}$