## Cheatography

## Personal Math 26 Unit 1 Cheat Sheet by hotwire via cheatography.com/122871/cs/22996/

<b>Right Triangles</b>	5	Right Tria	angles (cont)
Properties of Triangles	(1) the sum of the angles equals 180° AND (2) the combined length of any two side exceeds that of the third side AND (3) larger angles are opposite larger sides	lsosceles Triangle	contains two sides of equal length
		Scalene Triangle	Contains no two sides are of the same length
		Similar Triangles	when corres- ponding angles are equal, then corresponding sides are propor-
Area	(leg * leg) / 2		
Pythagorean Theorem	$\log^2 + \log^2 = hypotenuse^2$		
SOHCAHTOA	Sine Opposite Hypote- nuse, Cosine Adjacent		tional
		Circles	
	Hypotenuse, Tangent		* D'
Special	Opposite Adjecent angles = 45-45-90 OR 30-	Circum ference	π * Diameter
Special Triangles	angles = 45-45-90 OR 30- 60-90	Circum	2 $\pi$ Radius
45-45-90 Triangle	<ul> <li>(1) the two legs are equal</li> <li>AND (2) the hypotenuse is</li> <li>√2 times the length of</li> <li>either leg</li> </ul>	ference	
		Area	πr <sup>2</sup>
		Radian	the length of the arc on the unit circle
30-60-90 Triangle	(1) the longer leg is $\sqrt{3}$ times the length of the shorter leg AND (2) the hypotenuse is 2 times the length of the shorter leg		$180^{\circ} = \pi$ radians
			1° = π/180
			(degrees) π/180 = radians
Acute Triangle	contains three acute angles	Unit Circle	has a radius of 1 and centered on a
Obtuse	contains exactly one		coordinate plane
Triangle	obtuse angle	Square R	Roots √
Equilateral	contains three side of		
Triangle	equal length	Quotient I of Square	
		or Square	

0	1 0
Scalene Triangle	Contains no two sides are of the same length
Similar Triangles	when corres- ponding angles are equal, then corresponding sides are propor- tional
Circles	
Circum ference	π * Diameter
Circum ference	2 $\pi$ Radius
Area	πr <sup>2</sup>
Radian	the length of the arc on the unit circle
	$180^{\circ} = \pi$ radians
	1° = π/180
	(degrees) π/180 = radians

Square Roots √	
Quotient Property of Square Roots	√a/√b = √a/b
$\sqrt{1/4} = 1/2$	
√-x	not a real number
-√x	real number

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