wk3_d1.notebook

Place your unit circle on the provided *xy* grid, with the center at the origin. The circle should fit inside all of your 1" marks. Draw the two diameters and mark the **0°, 90°, 180°, 270°,** and **360**° on your unit circle as shown below.



Stand your circle up with the 0 degree mark at the origin.



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Use a ruler to measure from the origin to each mark that you made. We will collect a few different measurments and average them to see how close we are to the real values.



Circumference of a Circle : C = 2 π r

Since our circle has a radius of 1 (one) the circumference is $2\pi r = 2\pi(1) = 2\pi$

So ti	that tells us that		360" = 2π 180° =	270° = 90° =	
	<mark>π/2</mark> 90 ⁰	π 180 ⁰	<mark>3π/</mark> 2 270 ⁰	2π 360 ⁰	
;©, 2			10 11 12 13 14 10 11 12 13 14 10 11 12 13 14		
	1 9/16 1.5625	3 1/8 3.125	4 3/4 4.75	6 1/4 6.25	
$\pi/2 = 1.57$ $3\pi/2 = 4.71$			$\pi = 3.1$ $2\pi = 6.$	4 28	