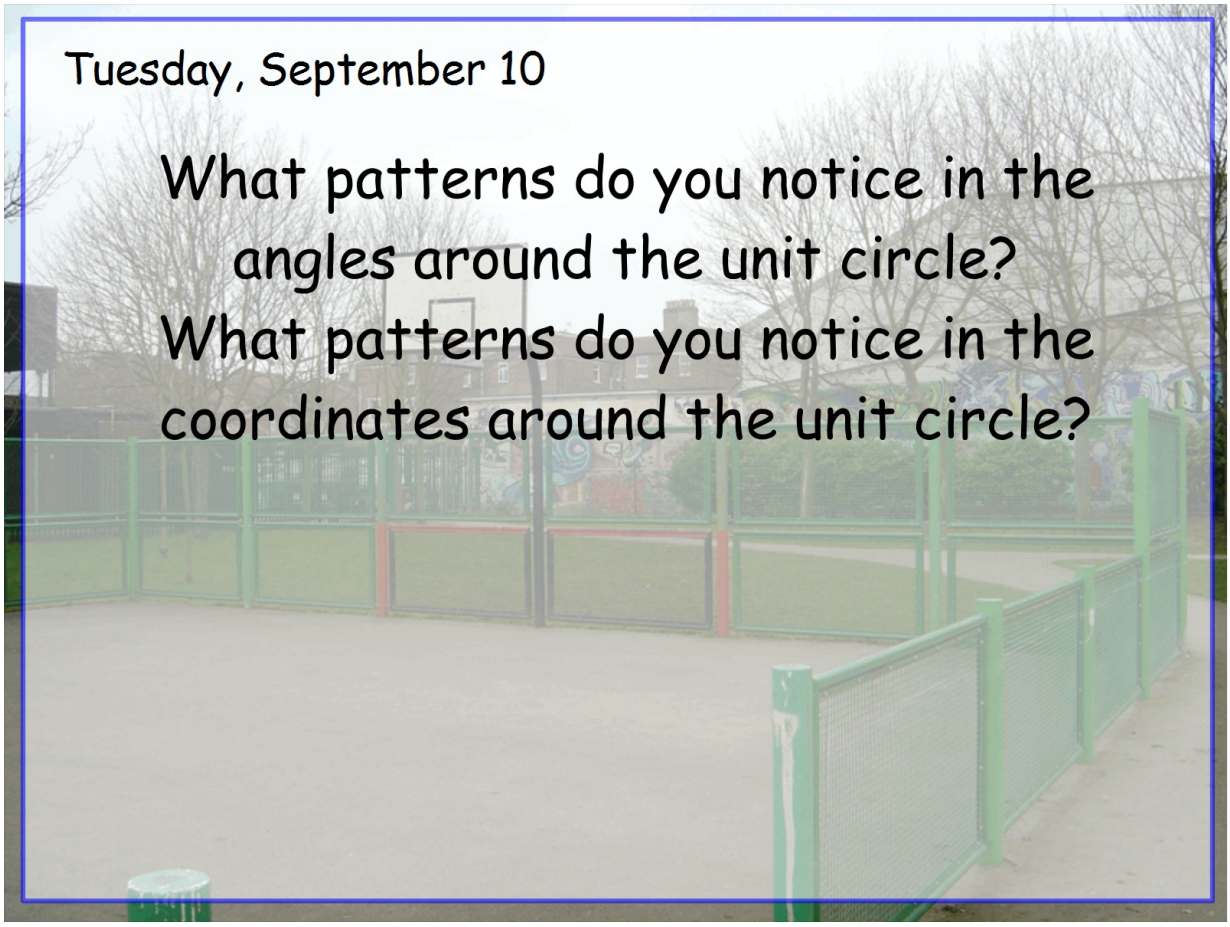
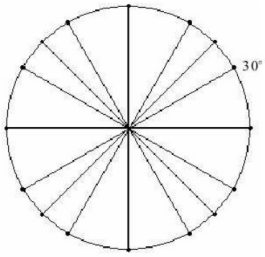


September 10

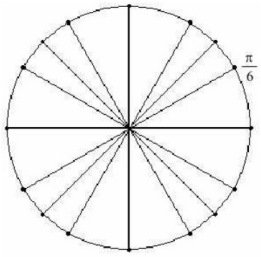
Students will verbally explain how to find the coordinates of specific points around the unit circle

(using the words: angle, radius, trig functions...)

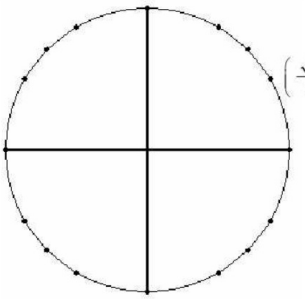
The Unit Circle



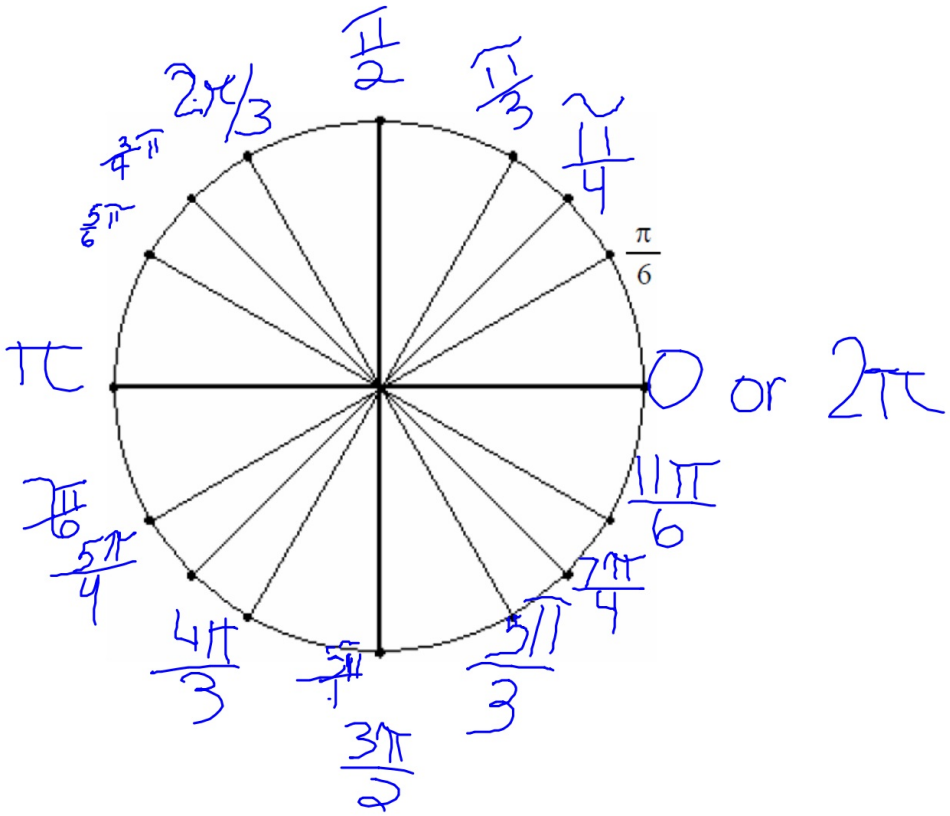
Label Each Point in DEGREES

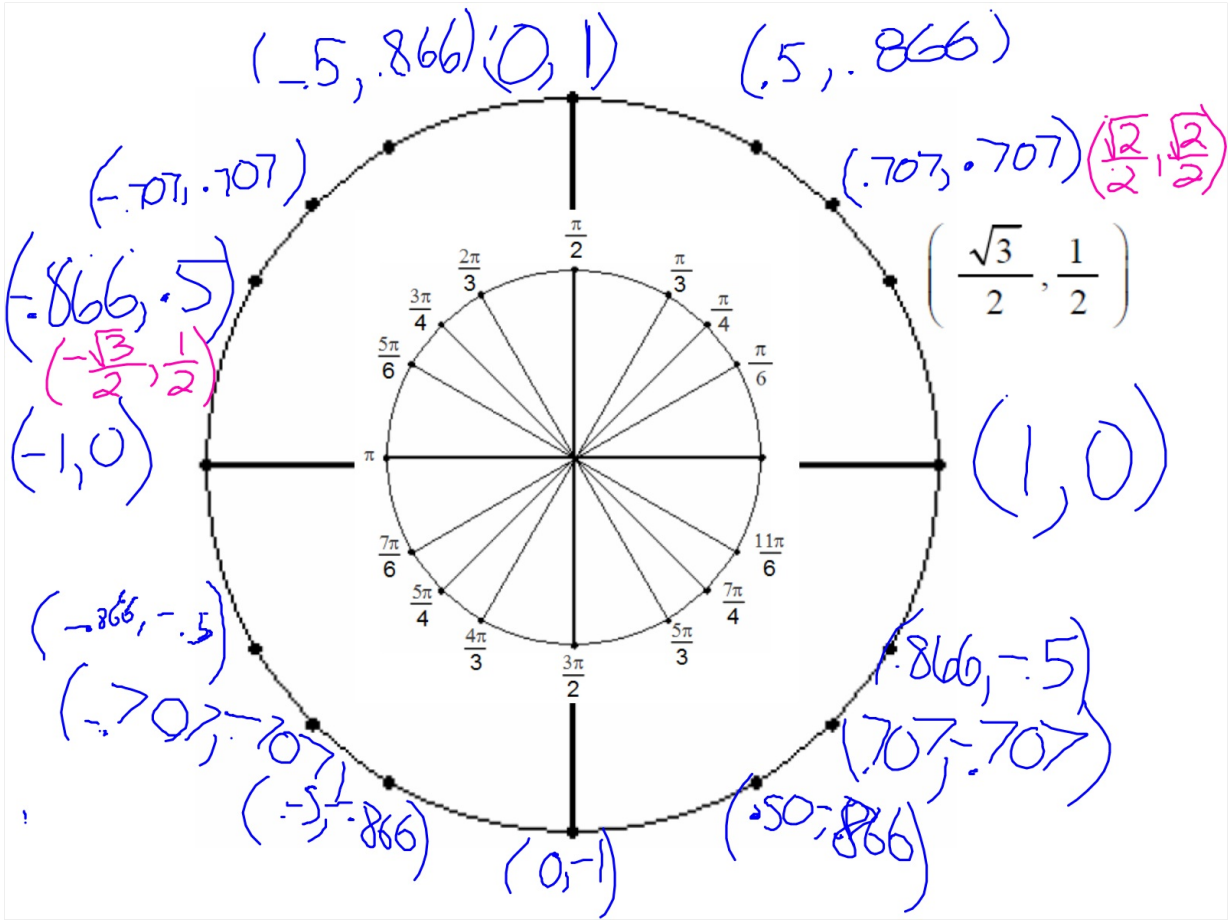


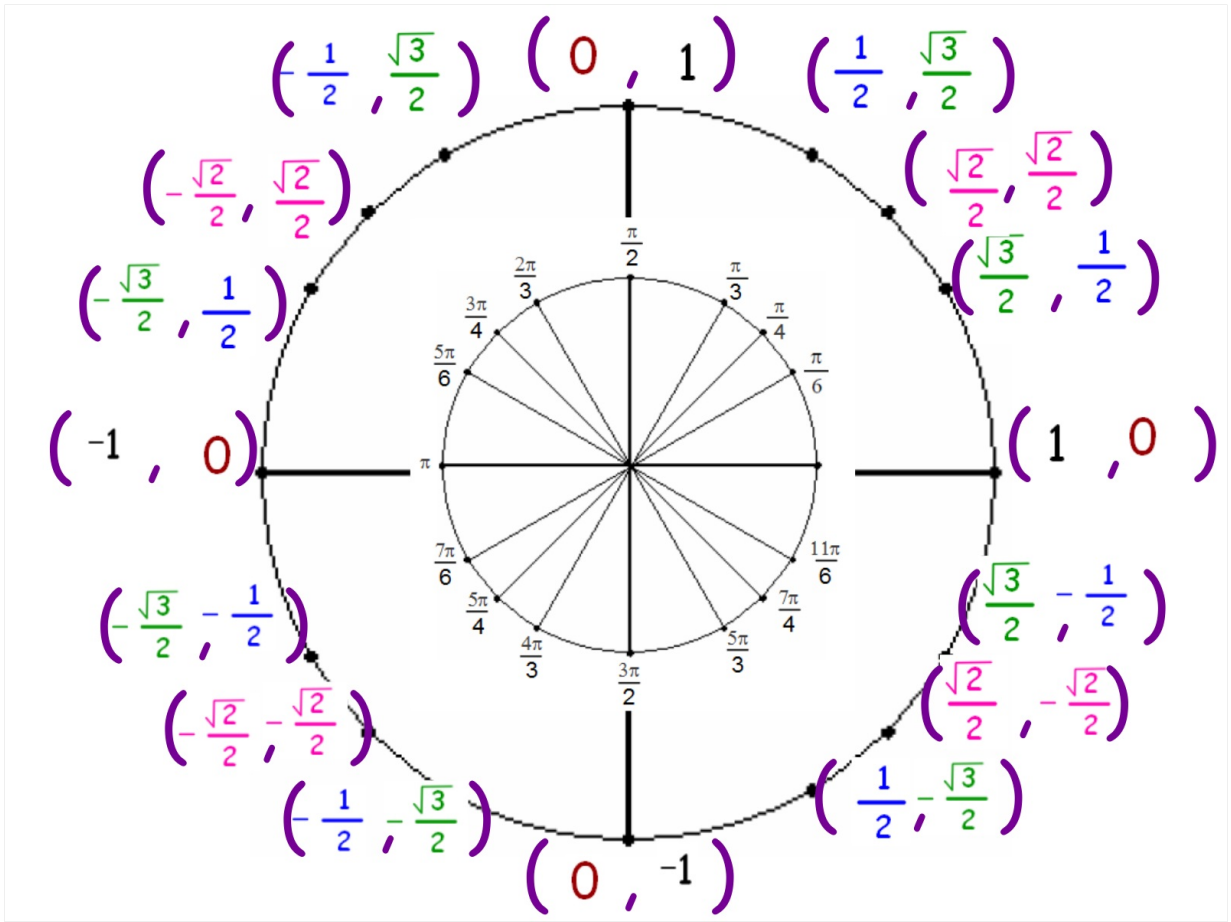
Label Each Point in RADIAN MEASURE

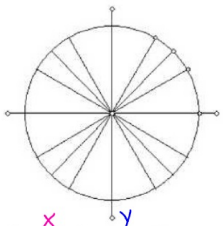


Label Each Point in (X , Y) Coordinates




(-.5, .866)
(0, 1)
(.5, .866)
(-.707, .707)
(.707, .707)
$\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$
$\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$
(-.866, .5)
$\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$
(-1, 0)
(1, 0)
(-.866, -.5)
(-.707, -.707)
(-.5, -.866)
(0, -1)
(.866, -.5)
(.707, -.707)
(.50, -.866)
$\frac{\pi}{2}$
$\frac{\pi}{3}$
$\frac{\pi}{4}$
$\frac{\pi}{6}$
π
$\frac{2\pi}{3}$
$\frac{3\pi}{4}$
$\frac{5\pi}{6}$
$\frac{7\pi}{6}$
$\frac{5\pi}{4}$
$\frac{4\pi}{3}$
$\frac{3\pi}{2}$
$\frac{5\pi}{3}$
$\frac{7\pi}{4}$
$\frac{11\pi}{6}$


$\left(-\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$
(0, 1)
$\left(\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$
$\left(-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$
$\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$
$\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$
$\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$
(-1, 0)
(1, 0)
$\left(-\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$
$\left(\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$
$\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$
$\left(\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$
$\left(-\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$
$\left(\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$
(0, -1)
$\frac{\pi}{2}$
$\frac{\pi}{3}$
$\frac{\pi}{4}$
$\frac{\pi}{6}$
π
$\frac{2\pi}{3}$
$\frac{3\pi}{4}$
$\frac{5\pi}{6}$
$\frac{7\pi}{6}$
$\frac{5\pi}{4}$
$\frac{4\pi}{3}$
$\frac{3\pi}{2}$
$\frac{5\pi}{3}$
$\frac{7\pi}{4}$
$\frac{11\pi}{6}$



	m^R	m^θ	$\cos(\theta)$	$\sin(\theta)$	$\tan(\theta)$	$\sec(\theta)$	$\csc(\theta)$	$\cot(\theta)$
-2π	0	0	1	0				
$-\frac{11\pi}{6}$	$\frac{\pi}{6}$	30	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$				
$-\frac{7\pi}{4}$	$\frac{\pi}{4}$	45	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$				
$-\frac{5\pi}{3}$	$\frac{\pi}{3}$	60	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$				
$-\frac{3\pi}{2}$	$\frac{\pi}{2}$	90	0	1				
$-\frac{4\pi}{3}$	$\frac{2\pi}{3}$	120	$-\frac{1}{2}$	$\frac{\sqrt{3}}{2}$				
$-\frac{5\pi}{4}$	$\frac{3\pi}{4}$	135	$-\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$				
$-\frac{7\pi}{6}$	$\frac{5\pi}{6}$	150	$-\frac{\sqrt{3}}{2}$	$\frac{1}{2}$				
$-\pi$	π	180	-1	0				
$-\frac{5\pi}{6}$	$\frac{7\pi}{6}$	210	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$				
$-\frac{3\pi}{4}$	$\frac{5\pi}{4}$	225	$-\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$				
$-\frac{2\pi}{3}$	$\frac{4\pi}{3}$	240	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$				
$-\frac{\pi}{2}$	$\frac{3\pi}{2}$	270	0	-1				
$-\frac{\pi}{3}$	$\frac{5\pi}{3}$	300	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$				
$-\frac{\pi}{4}$	$\frac{7\pi}{4}$	315	$\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$				
$-\frac{\pi}{6}$	$\frac{11\pi}{6}$	330	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$				
0	2π	360	1	0				