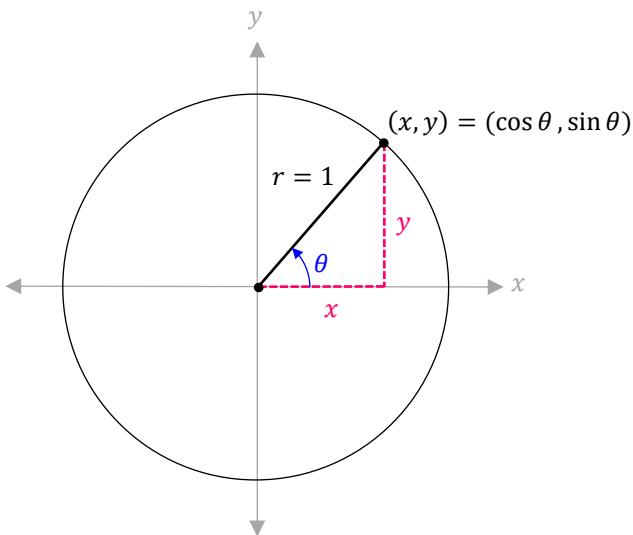


Unit Circle

– circle with radius of 1, centered at the origin.



Trig functions:	radius = 1 on the unit circle, so on the unit circle:
$\sin \theta = \frac{y}{r} = \frac{\text{opp}}{\text{hyp}}$	$\sin \theta = y$
$\cos \theta = \frac{x}{r} = \frac{\text{adj}}{\text{hyp}}$	$\cos \theta = x$
$\tan \theta = \frac{y}{x} = \frac{\text{opp}}{\text{adj}}$	$\tan \theta = \frac{y}{x}$
$\csc \theta = \frac{1}{\sin \theta} = \frac{r}{y}$	$\csc \theta = \frac{1}{y}$
$\sec \theta = \frac{1}{\cos \theta} = \frac{r}{x}$	$\sec \theta = \frac{1}{x}$
$\cot \theta = \frac{1}{\tan \theta} = \frac{x}{y}$	$\cot \theta = \frac{x}{y}$

