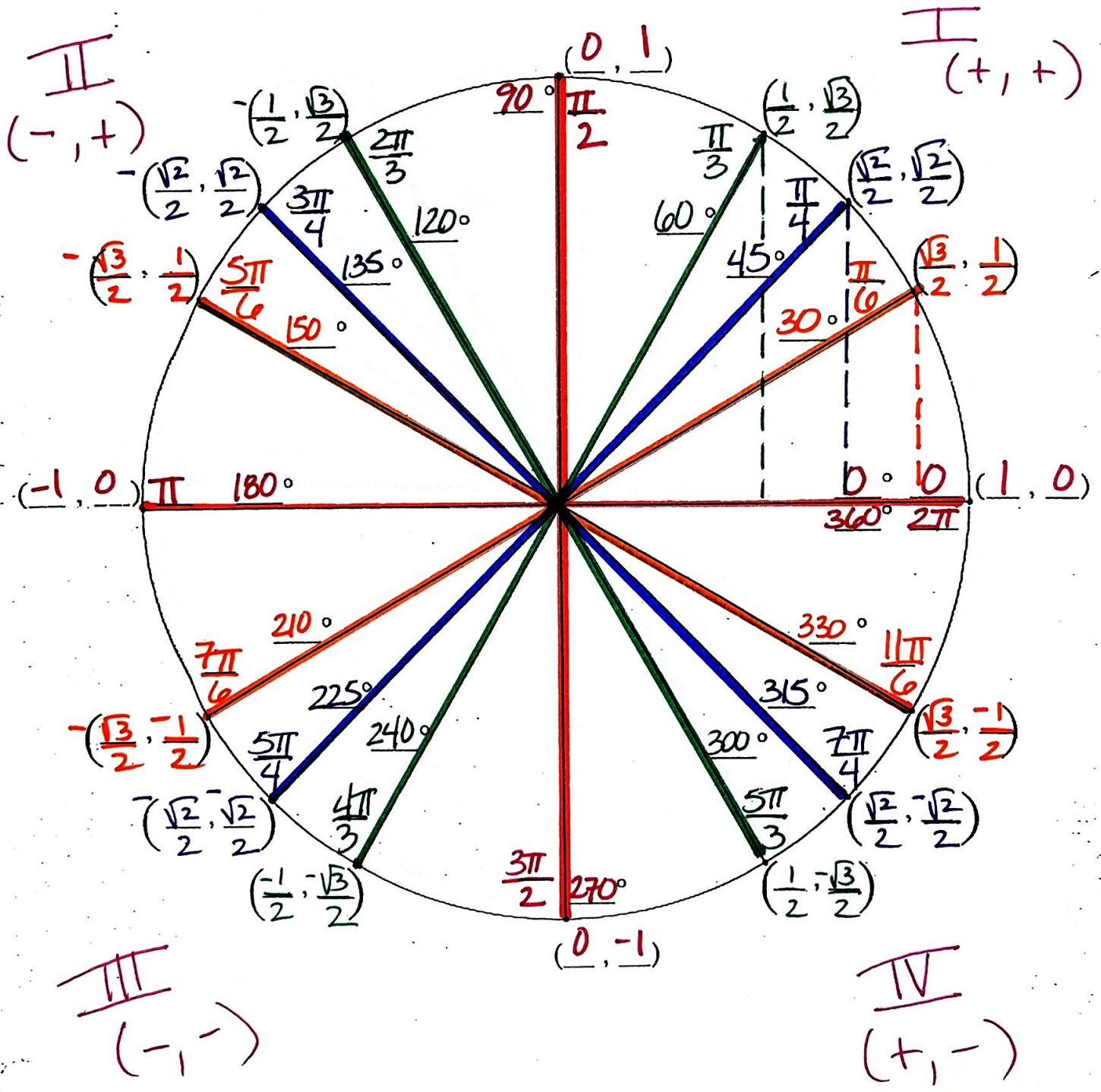


Name \_\_\_\_\_

# THE UNIT CIRCLE



## 4.2 Trigonometric Functions and the Unit Circle

Trig Function	Abbreviation	In terms of SOHCAHTOA	In terms of the Unit Circle
sine	sin	$\frac{\text{opposite}}{\text{hypotenuse}}$	y-coordinate
cosine	cos	$\frac{\text{adjacent}}{\text{hypotenuse}}$	x-coordinate
tangent	tan	$\frac{\text{opposite}}{\text{adjacent}}$	$\frac{\text{y-coordinate}}{\text{x-coordinate}}$

### RECIPROCAL FUNCTIONS

cosecant $\frac{1}{\text{sine}}$	csc	$\frac{\text{hyp}}{\text{opp}}$	$\frac{1}{\text{y-coord.}}$
secant $\frac{1}{\text{cosine}}$	sec	$\frac{\text{hyp}}{\text{adj}}$	$\frac{1}{\text{x-coord.}}$
cotangent $\frac{1}{\text{tangent}}$	cot	$\frac{\text{adj}}{\text{opp}}$	$\frac{\text{x-coord}}{\text{y-coord}}$