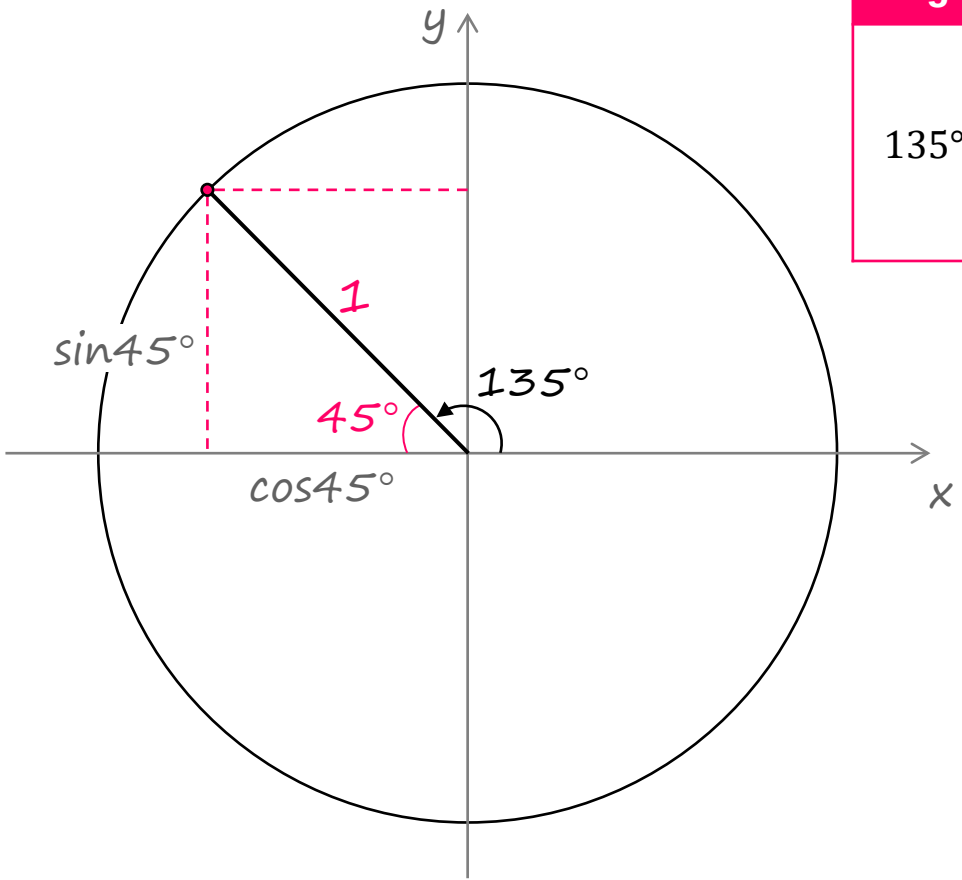
THE UNIT CIRCLE ▸ ACTIVITY

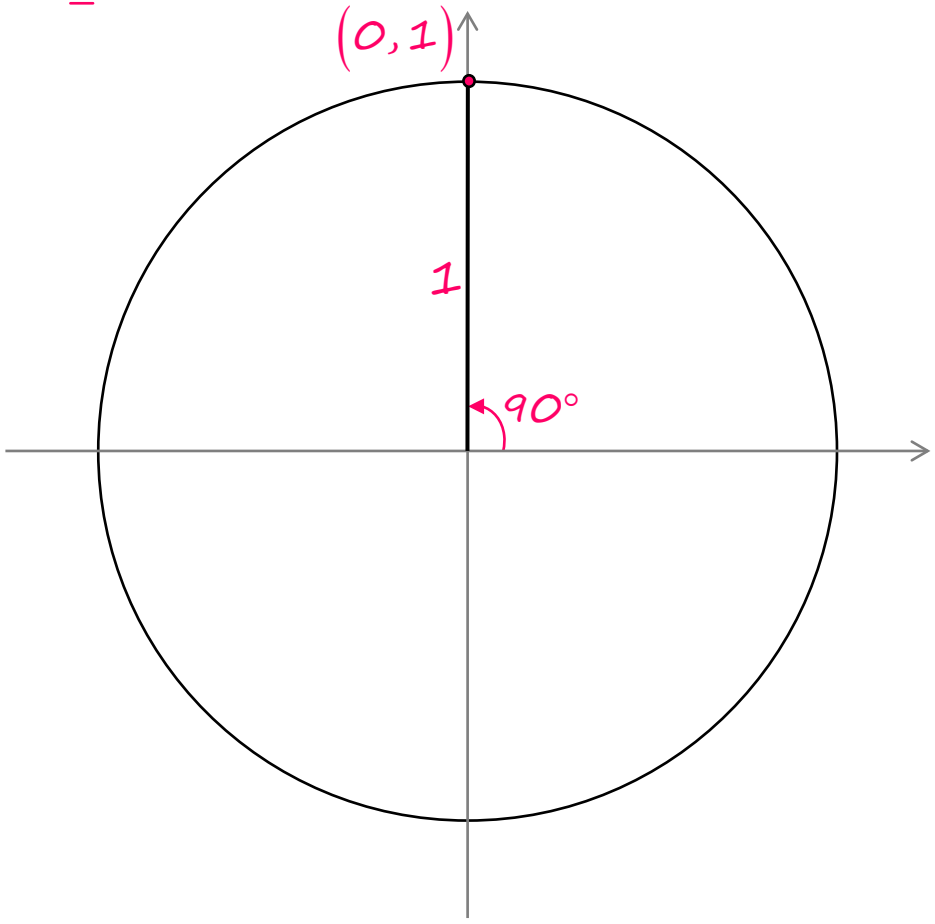
1.



Angle	Trig Function	$0 \leq \theta \leq 90$	Evaluated
135°	$\sin 135°$	$\sin 45°$	$\frac{1}{\sqrt{2}}$
	$\cos 135°$	$-\cos 45°$	$-\frac{1}{\sqrt{2}}$

THE UNIT CIRCLE ▸ ACTIVITY

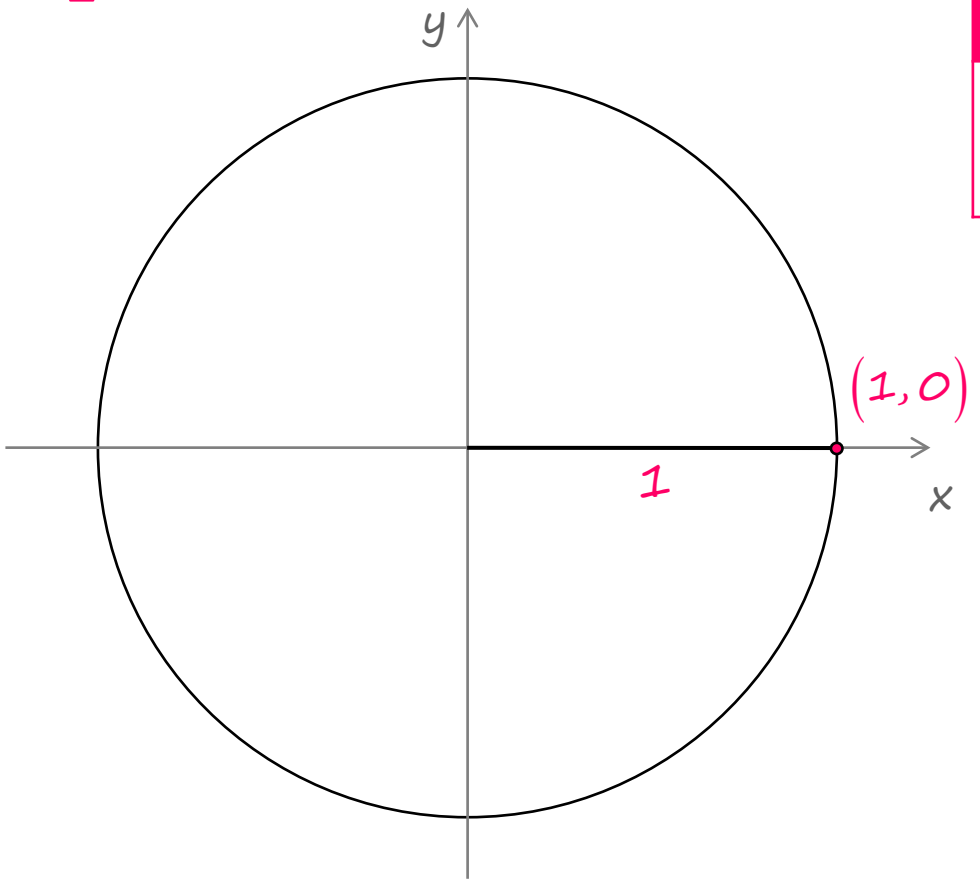
2.



Angle	Trig Function	$0 \leq \theta \leq 90$	Evaluated
90°	$\sin 90°$	N/A	1
	$\cos 90°$	N/A	0

THE UNIT CIRCLE ▸ ACTIVITY

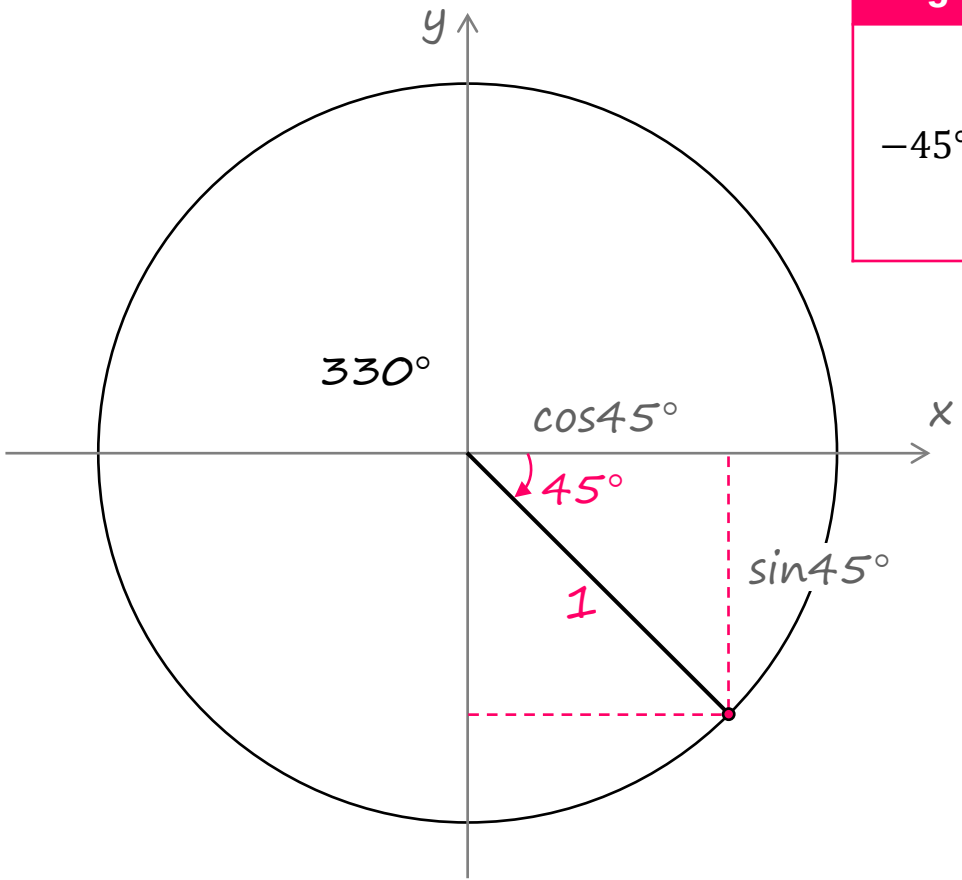
3.



Angle	Trig Function	$0 \leq \theta \leq 90$	Evaluated
0°	$\sin 0°$	N/A	0
	$\cos 0°$	N/A	1

THE UNIT CIRCLE ▸ ACTIVITY

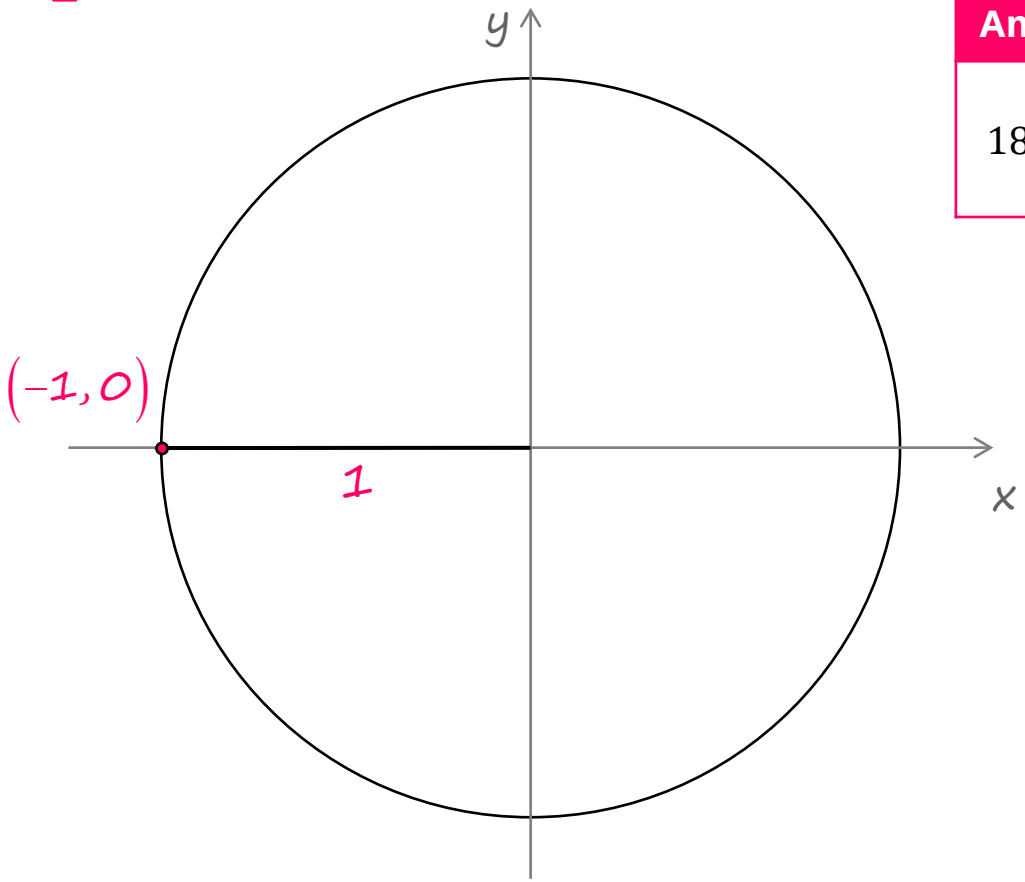
4.



Angle	Trig Function	$0 \leq \theta \leq 90$	Evaluated
$-45°$	$\sin(-45°)$	$-\sin 45°$	$-\frac{1}{\sqrt{2}}$
	$\cos(-45°)$	$\cos 45°$	$\frac{1}{\sqrt{2}}$

THE UNIT CIRCLE ▸ ACTIVITY

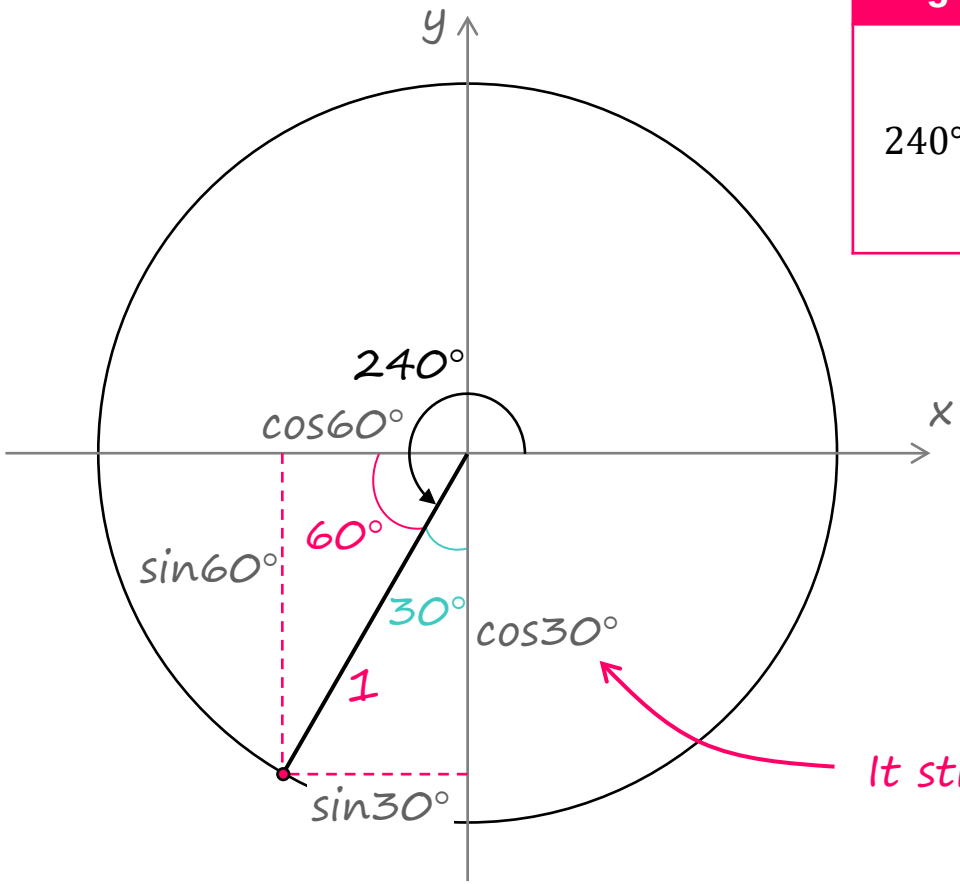
5.



Angle	Trig Function	$0 \leq \theta \leq 90$	Evaluated
180°	$\sin 180°$	$\sin 0°$	0
	$\cos 180°$	$-\cos 0°$	-1

THE UNIT CIRCLE ▸ EXAMPLE-PROBLEM-PAIR

6.

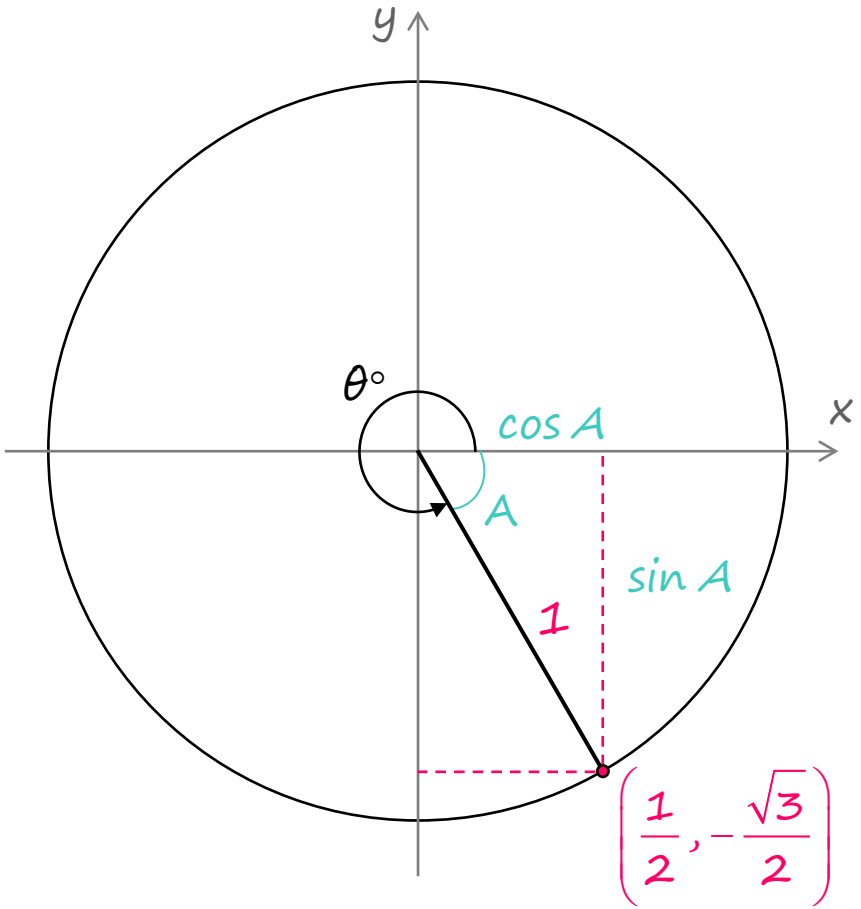


Angle	Trig Function	$0 \leq \theta \leq 90$	Evaluated
240°	$\sin 240°$	$-\sin 60°$	$-\frac{\sqrt{3}}{2}$
	$\cos 240°$	$-\cos 60°$	$-\frac{1}{2}$

It still works because $\sin 60° = \cos 30°$

THE UNIT CIRCLE ▸ ACTIVITY

Extension.



Angle	Trig Function	$0 \leq \theta \leq 90$	Evaluated
$-60°$	$\sin(-60°)$	$-\sin 60°$	$-\frac{\sqrt{3}}{2}$
	$\cos(-60°)$	$\cos 60°$	$\frac{1}{2}$

$\cos A = \frac{1}{2}$ ⟵ x-coordinate is $\frac{1}{2}$

$A = 60°$

$\therefore \quad A = 300°$ (lower right quadrant)