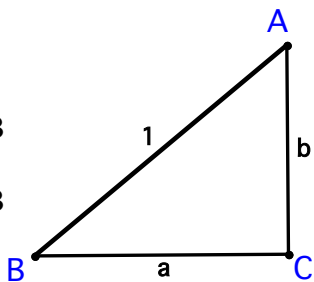


Aim: What is the unit circle?

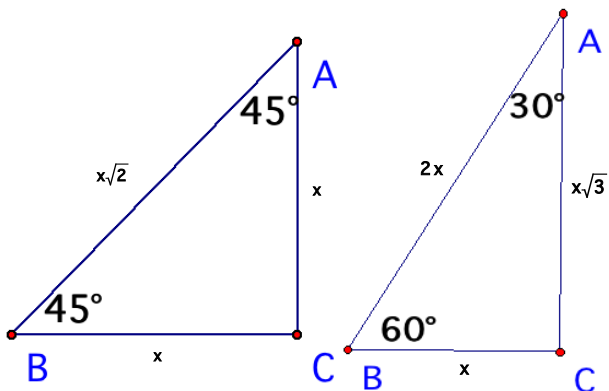
Get Ready:

Find:

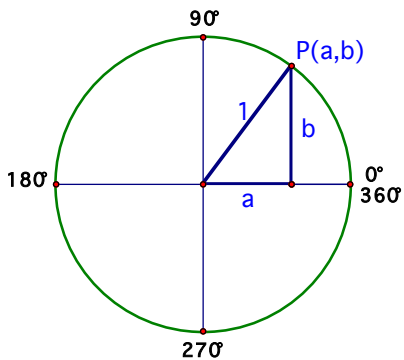
- 1) Sin B
- 2) Cos B
- 3) Tan B



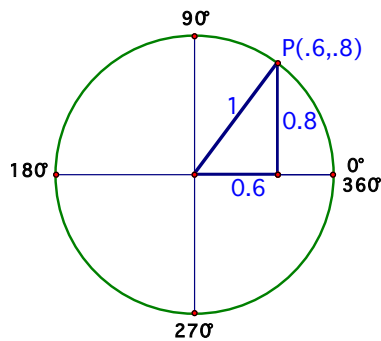
Solve for all six trig ratios of 30, 45, 60



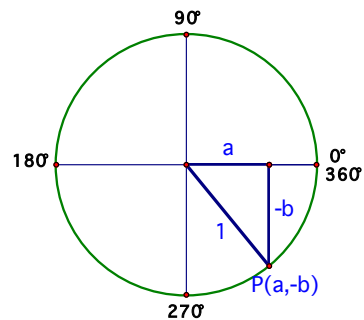
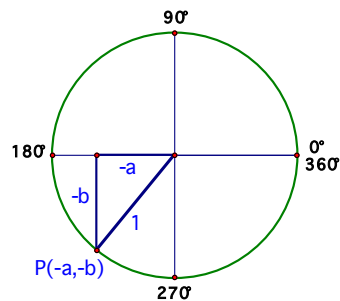
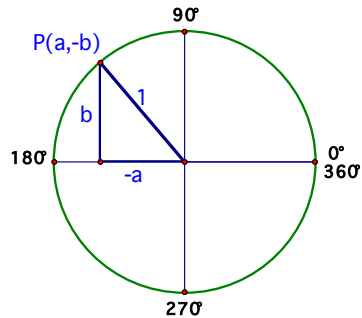
I.



II.

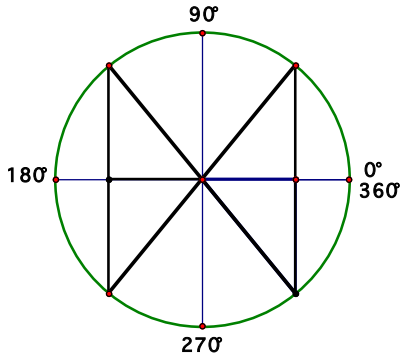


III.

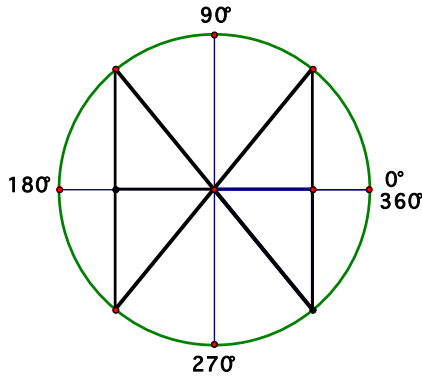


Aim: What is the unit circle?

IV.



V.



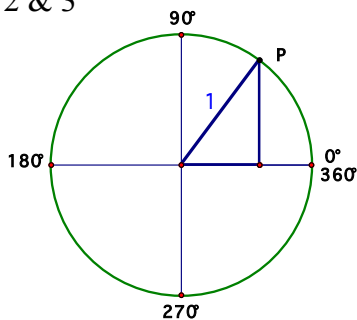
VI. Name the quadrant:

- $\sin > 0$ and $\cos < 0$
- $\cos > 0$ and $\tan > 0$
- $\sin < 0$ and $\tan > 0$
- $\tan < 0$ and $\cos > 0$

1) Fill in the table with the sign of each function

Quadrant	$\sin \theta$	$\cos \theta$	$\tan \theta$
I			
II			
III			
IV			

Use sketch for #'s 2 & 3



- If the coordinate of point P are $(0.5, 0.5\sqrt{3})$, find: a) $\sin \theta$ b) $\cos \theta$ c) $\tan \theta$
- If the coordinate of point P are $(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})$, find: a) $\sin \theta$ b) $\cos \theta$ c) $\tan \theta$

4) If $m\angle A = 250^\circ$:

- In which quadrant does the terminal side of $\angle A$ terminate?
- Is $\sin A$ positive or negative? Why?

For #'s 5-9, identify the quadrant that the angle lies(terminate):

- $\sin \theta > 0$ and $\cos \theta < 0$
- $\tan \theta$ is positive and $\cos \theta$ is negative

7) $\sin B = -\frac{3}{5}$ and $\cos B > 0$

8) $\tan A > 0$ and $(\tan A)(\sin A) > 0$

9) $\tan x = -1$ and $\cos x = -\frac{\sqrt{2}}{2}$

- 10) If $\sin \theta = -\frac{1}{2}$ and $\cos \theta = -\frac{\sqrt{3}}{2}$, which of the following could be the value of θ ?
- 30
 - 150
 - 210
 - 330