

Now let's work backwards -

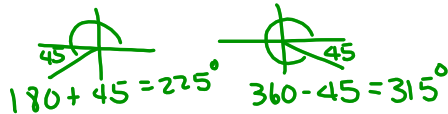
Given a trig function and its ratio,

find the angle over the interval $0^\circ \leq \theta < 360^\circ$

$$\sin \theta = -\frac{1}{\sqrt{2}}$$

sin is neg in QIII, QIV

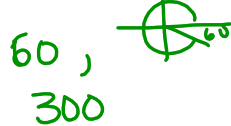
RA 45



$$\cos \theta = \frac{1}{2}$$

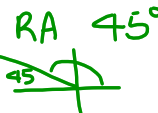
QI Q4

RA 60



$$\cot \theta = -1$$

QII QIV



$$180 - 45 = 135 \quad 360 - 45 = 315$$

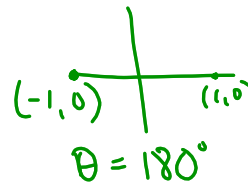
$$\sec \theta = -1$$

$$\cos \theta = -1$$

$$\csc \theta = 0$$

$$\sin \theta = 0$$

$$\theta = 0^\circ, 180^\circ$$



Jan 23-7:00 AM

Given a trig function and its ratio,

find the angle over the interval $0 \leq \theta < 2\pi$

$$\cos \theta = -\frac{\sqrt{3}}{2}$$

QII QIII

RA = $\frac{\pi}{6}$

$\frac{5\pi}{6}, \frac{7\pi}{6}$

$$\cot \theta = \frac{1}{\sqrt{3}}$$

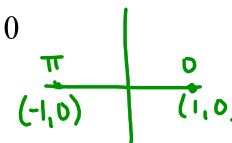
$\tan \theta = \sqrt{3}$

QI, III

RA $\frac{\pi}{3}$

$\frac{\pi}{3}, \frac{4\pi}{3}$

$$\sin \theta = 0$$



$$\theta = 0, \pi$$

$$\tan \theta = 1$$

QI III

RA $\frac{\pi}{4}$

$\frac{\pi}{4}, \frac{5\pi}{4}$

Jan 9-1:49 PM