

Use the given information to find the measure of all the angles θ that meet each condition.

θ in degrees ($0^\circ \leq \theta \leq 360^\circ$)

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

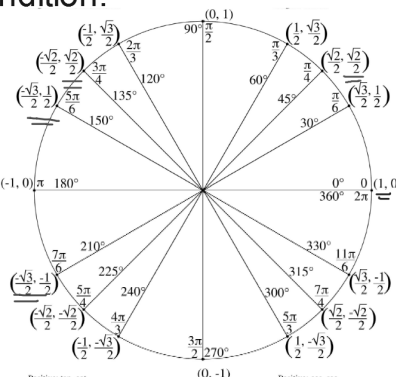
2. $\sin \theta = \frac{\sqrt{2}}{2}$

$\theta = 210^\circ, 150^\circ$

$45^\circ, 135^\circ$

3. $\cos \theta = 1$

$0^\circ, 360^\circ$



Use the given information to find the measure of all the angles θ that meet each condition.

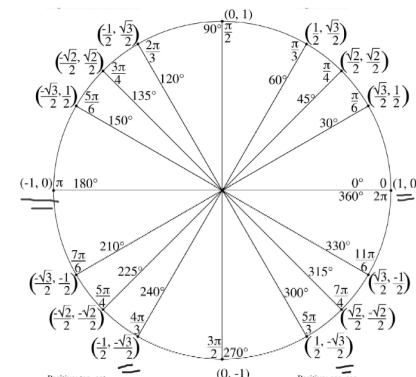
θ in degrees ($0^\circ \leq \theta \leq 360^\circ$)

4. $\sin \theta = -\frac{\sqrt{3}}{2}$

$240^\circ, 300^\circ$

5. $\sin \theta = 0$

$0^\circ, 180^\circ, 360^\circ$



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θ in degrees ($0^\circ \leq \theta \leq 360^\circ$)

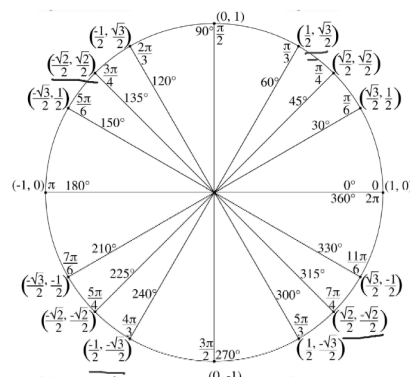
6. $\tan \theta = -1$

$135^\circ, 315^\circ$

7. $\tan \theta = \sqrt{3} \Rightarrow \frac{\sqrt{3}}{2} y$

$60^\circ, 240^\circ$

$\frac{1}{2} x$



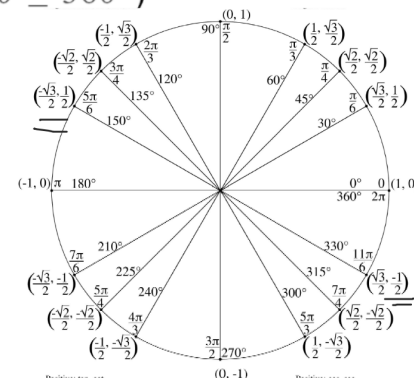
Use the given information to find the measure of all the angles θ that meet each condition.

θ in degrees ($0^\circ \leq \theta \leq 360^\circ$)

8. $\tan \theta = -\frac{\sqrt{3}}{3}$

$\Rightarrow \frac{-\frac{1}{2} y}{\frac{\sqrt{3}}{2} x} = \frac{-1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$

$\theta = 150^\circ, 330^\circ$



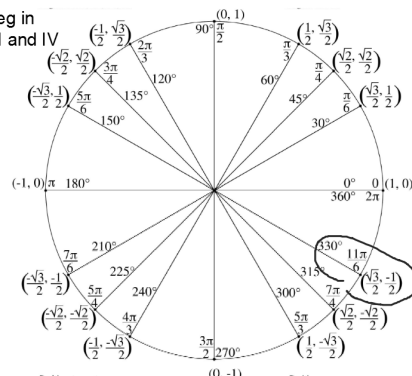
9. Given $\cos\theta > 0$ and $\sin\theta = -\frac{1}{2}$ find θ

Cos is pos
in Quad I and IV

Sin is neg in
Quad III and IV

Must be in Quadrant IV

$$\theta = 330^\circ$$



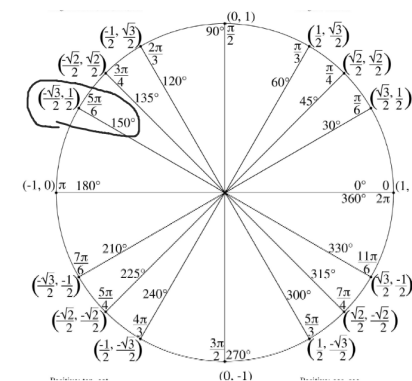
10. Given $90^\circ \leq \theta \leq 180^\circ$

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

Quad II

$$\theta = 150^\circ$$

$$\sin 150^\circ = \frac{1}{2}$$



You can now finish Hwk #6.

Practice Sheet: Using the Unit Circle

Due Tomorrow

We are also done with all the material for the 1st Test.