

# Algebra 2 Bellwork Tuesday, March 10, 2015

Use the given information to find the measure of all the angles  $\theta$  that meet each condition. ( $0^\circ \leq \theta \leq 360^\circ$ )

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

2.  $\sin\theta = -1$

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

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

5.  $\sin\theta = \frac{1}{2}$

6.  $\tan\theta$  is undefined

7. Given  $270^\circ \leq \theta \leq 360^\circ$  and  $\sin\theta = -\frac{\sqrt{3}}{2}$  find  $\cos\theta$

8. Given  $\sin\theta < 0$  and  $\cos\theta = \frac{\sqrt{3}}{2}$  Find  $\tan\theta$ .

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Use the given information to find the measure of all the angles  $\theta$  that meet each condition. ( $0^\circ \leq \theta \leq 360^\circ$ )

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

$45^\circ, 315^\circ$

2.  $\sin\theta = -1$

$270^\circ$

3.  $\tan\theta = \sqrt{3} = \frac{\sqrt{3}}{2}$  or  $-\frac{\sqrt{3}}{2}$

$60^\circ, 240^\circ$

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

$150^\circ, 210^\circ$

5.  $\sin\theta = \frac{1}{2}$

$30^\circ, 150^\circ$

6.  $\tan\theta$  is undefined

$90^\circ, 270^\circ$

7. Given  $270^\circ \leq \theta \leq 360^\circ$  and  $\sin\theta = -\frac{\sqrt{3}}{2}$  find  $\cos\theta$

Quad IV  
cos is +

$= \frac{1}{2}$

8. Given  $\sin\theta < 0$  and  $\cos\theta = \frac{\sqrt{3}}{2}$  Find  $\tan\theta$ .

$-\frac{\sqrt{3}}{2}$

$$= \frac{-\frac{1}{2}}{\frac{\sqrt{3}}{2}} = -\frac{1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$$

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