Name _____   Date _____
Mr. Schlansky   Pre Calculus

The Unit Circle

Find the exact value of the coordinate on the unit circle for each of the following

1. $\theta = 30º$ 2. $\theta = \dfrac{\pi}{3}$ 3. $\theta = 45º$

4. $\theta = \dfrac{5\pi}{3}$ 5. $\theta = 300º$ 6. $\theta = \dfrac{7\pi}{6}$
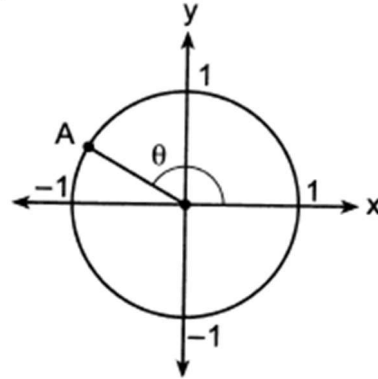
7. $\theta = 330º$ 8. $\theta = \dfrac{5\pi}{4}$ 9. $\theta = 120º$
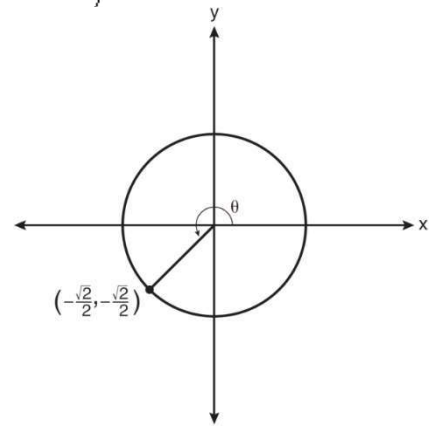
10. In the diagram of a unit circle below, point A, $\left(-\dfrac{\sqrt{3}}{2}, \dfrac{1}{2}\right)$, represents the point where the

terminal side of θ intersects the unit circle.

What is $m\angle\theta$?

1) 30º
2) 120º
3) 135º
4) 150º

11. In the diagram below of a unit circle, the ordered pair $\left(-\dfrac{\sqrt{2}}{2}, -\dfrac{\sqrt{2}}{2}\right)$ represents the point

where the terminal side of θ intersects the unit circle.

What is $m\angle\theta$?

1) $\dfrac{\pi}{4}$

2) $\dfrac{3\pi}{4}$

3) $\dfrac{5\pi}{4}$

4) $\dfrac{4\pi}{3}$

$\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$

12. In the diagram of a unit circle below, a point on the unit circle as coordinates $\left(\dfrac{1}{2}, -\dfrac{\sqrt{3}}{2}\right)$.

What is $m\angle\theta$?

1) 300º
2) 315º
3) 240º
4) 330º