Name _____ Date _____
Mr. Schlansky Pre Calculus

The Unit Circle

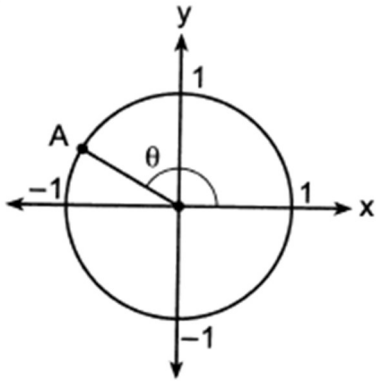
Find the exact value of the coordinate on the unit circle for each of the following

1. $\theta = 30^{\circ}$ 2. $\theta = \frac{\pi}{3}$ 3. $\theta = 45^{\circ}$

4. $\theta = \frac{5\pi}{3}$ 5. $\theta = 300^{\circ}$ 6. $\theta = \frac{7\pi}{6}$

7. $\theta = 330^{\circ}$ 8. $\theta = \frac{5\pi}{4}$ 9. $\theta = 120^{\circ}$

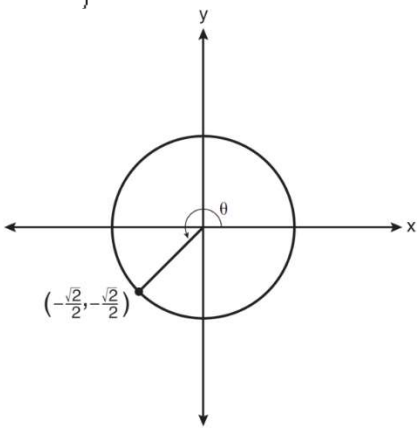
10. In the diagram of a unit circle below, point A, $\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$, represents the point where the terminal side of θ intersects the unit circle.



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 $\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$ represents the point where the terminal side of θ intersects the unit circle.



What is $m\angle\theta$?

1) $\frac{\pi}{4}$
2) $\frac{3\pi}{4}$
3) $\frac{5\pi}{4}$
4) $\frac{4\pi}{3}$

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

What is $m\angle\theta$?

1) 300º
2) 315º
3) 240º
4) 330º