

Angles and the Unit Circle Guided Notes

1. An angle is in **standard position** when _____

The ray on the x axis is _____

The other ray is _____

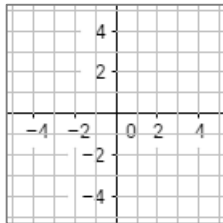
2. The **measure** of an angle in standard position is _____

If the rotation is clockwise, then the angle is _____

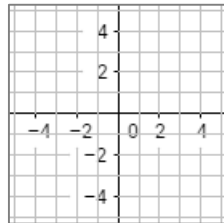
If the rotation is counterclockwise, then the angle is _____

3. **Problem 1. Sketch angles in standard position:**

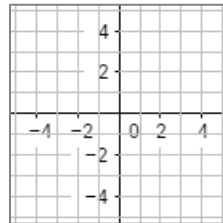
a) -45°



b) 225°



c) -315°



4. Two angles in standard position are **coterminal** angles if they have _____

_____. The difference between two coterminal angles is _____

5. **Unit Circle** _____

6. The **cosine of θ** ($\cos \theta$) is _____

7. The **sine of θ** ($\sin \theta$) is _____

8. **Problem 2.** An angle in standard position with terminal side lying on x-axis or y-axis is called as **Quadrantal Angle**.

Use the unit circle to determine Sine and Cosine of Quadrantal Angles.

9. **Problem 3.** Use the unit circle to determine exact values for the $\sin 30^\circ$ and $\cos 30^\circ$.
