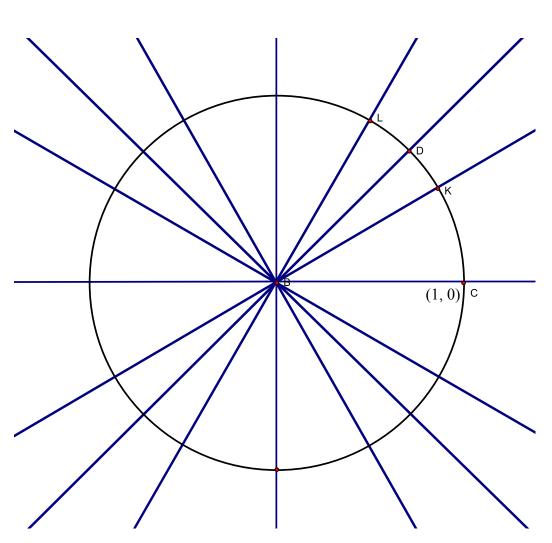
## **Angles of Rotation and the Unit Circle One Counterclockwise Rotation**

Name:		
Period:	Date:	

Below is a circle with a radius of 1 unit, known as the **unit circle**. Three angle measures are given in standard position with a **counterclockwise** rotation. Use these angles to write the other angle measures in standard position in both **degrees** and **radians**. Use special right triangles to identify the **coordinates** of the points of intersections of the lines and circle. *Take notes on any patterns you notice in the angle measures and coordinates*.



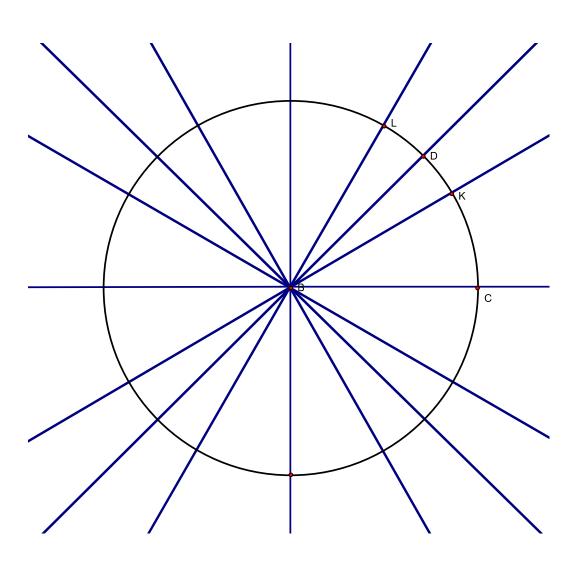
m∠LBC = 60°

m∠DBC = 45°

 $m\angle KBC = 30^{\circ}$ 

## Angles of Rotation and the Unit Circle <u>Two Counterclockwise Rotations</u>

Use these angles to write the other angle measures with **two** counterclockwise rotations in standard position in both **degrees** and **radians**. Use special right triangles to identify the **coordinates** of the points of intersections of the lines and circle.



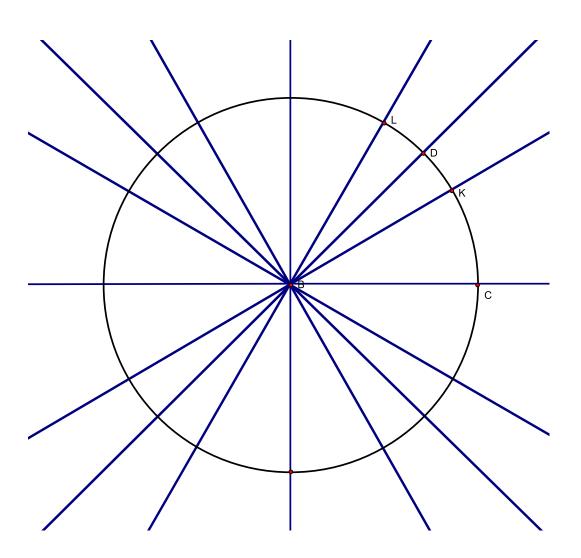
m∠LBC = 60°

m∠DBC = 45°

 $m\angle KBC = 30^{\circ}$ 

## **Angles of Rotation and the Unit Circle One Clockwise Rotation**

Use these angles to write the other angle measures with one **clockwise** rotation in standard position in both **degrees** and **radians**. Use special right triangles to identify the **coordinates** of the points of intersections of the lines and circle.



m∠LBC = 60°

m∠DBC = 45°

 $m\angle KBC = 30^{\circ}$