

DISCOVERING SUM OF TWO ANGLES IDENTITIES

Use the unit circle to find the following:

$$\sin(60^\circ) =$$

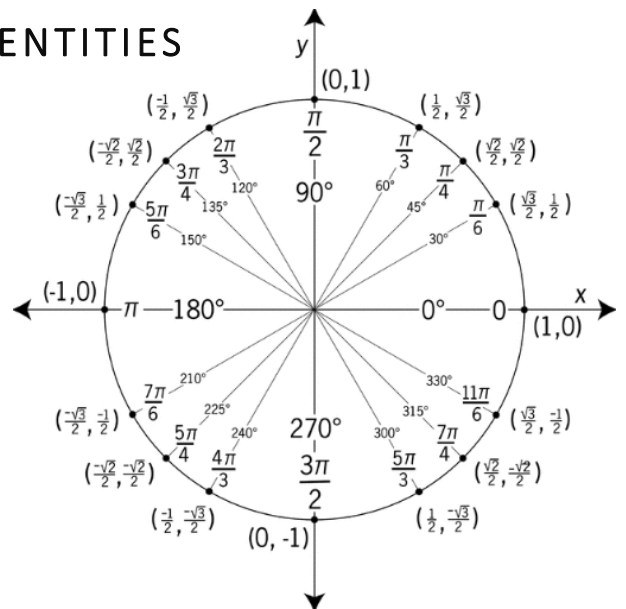
$$\sin(150^\circ) =$$

$$\sin(210^\circ) =$$

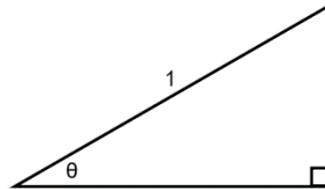
$$\sin(60^\circ + 150^\circ) =$$

$$\sin(60^\circ) + \sin(150^\circ) =$$

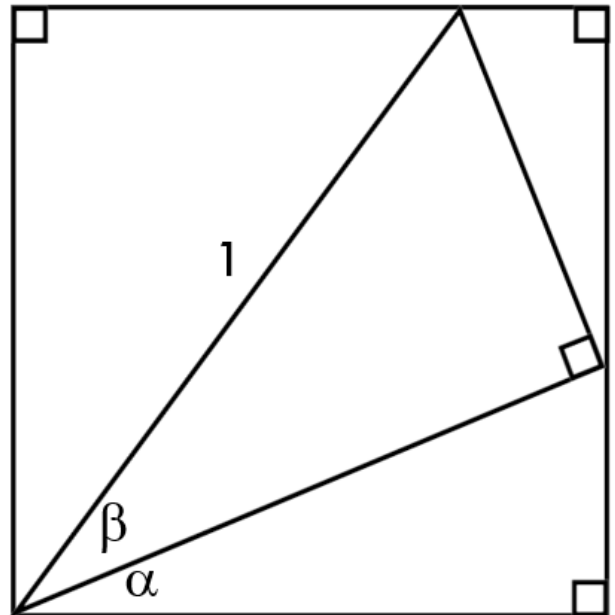
Is $\sin(60^\circ + 150^\circ) = \sin(60^\circ) + \sin(150^\circ)$?



Label the legs in the right triangle.



Following the PowerPoint, label the sides of the four right triangles in the diagram to discover the sum of two angles identities.



$$\sin(a + b) =$$

$$\cos(a + b) =$$