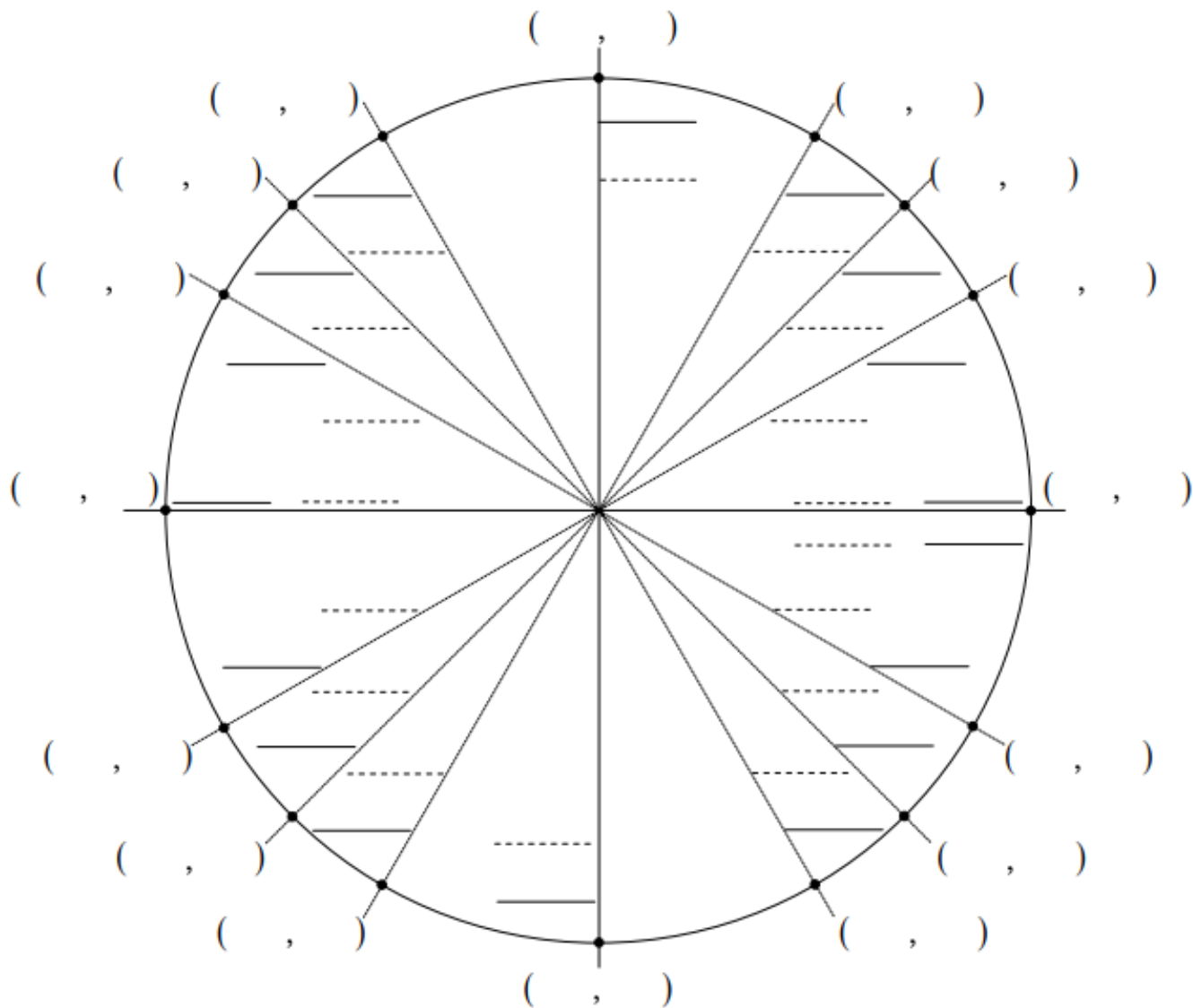
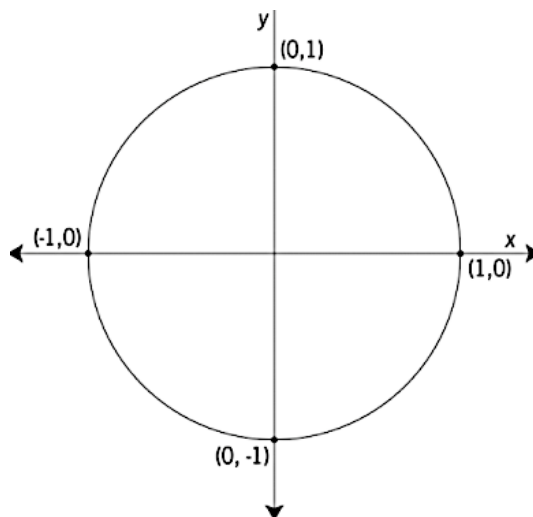


Lesson 3.5: The Unit Circle Part 1

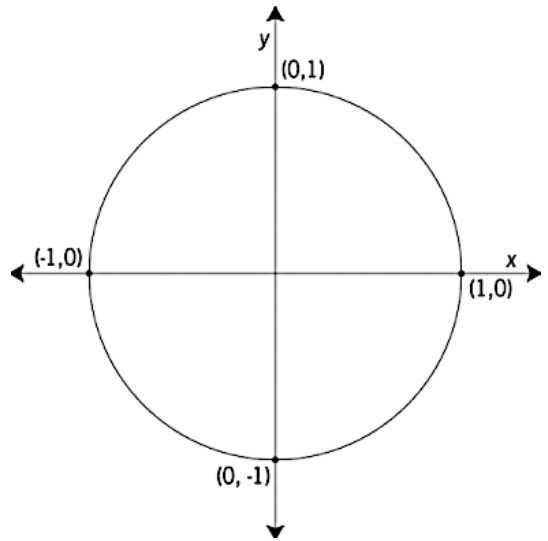
Definition of the Unit Circle:



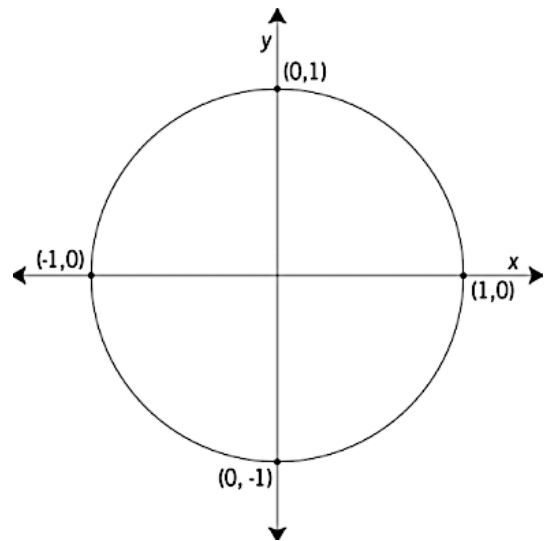
Consider the angle 30° or $\frac{\pi}{6}$ radians in standard position.



Consider the angle 60° or $\frac{\pi}{3}$ radians in standard position.



Consider the angle 45° or $\frac{\pi}{4}$ radians in standard position.



Using special right triangles evaluate the following trigonometric expressions. What do you notice?

a) $\sin\left(\frac{\pi}{6}\right) =$

b) $\cos\left(\frac{\pi}{6}\right) =$

c) $\sin\left(\frac{\pi}{3}\right) =$

d) $\cos\left(\frac{\pi}{3}\right) =$

e) $\sin\left(\frac{\pi}{4}\right) =$

f) $\cos\left(\frac{\pi}{4}\right) =$