Webquest: The Unit Circle
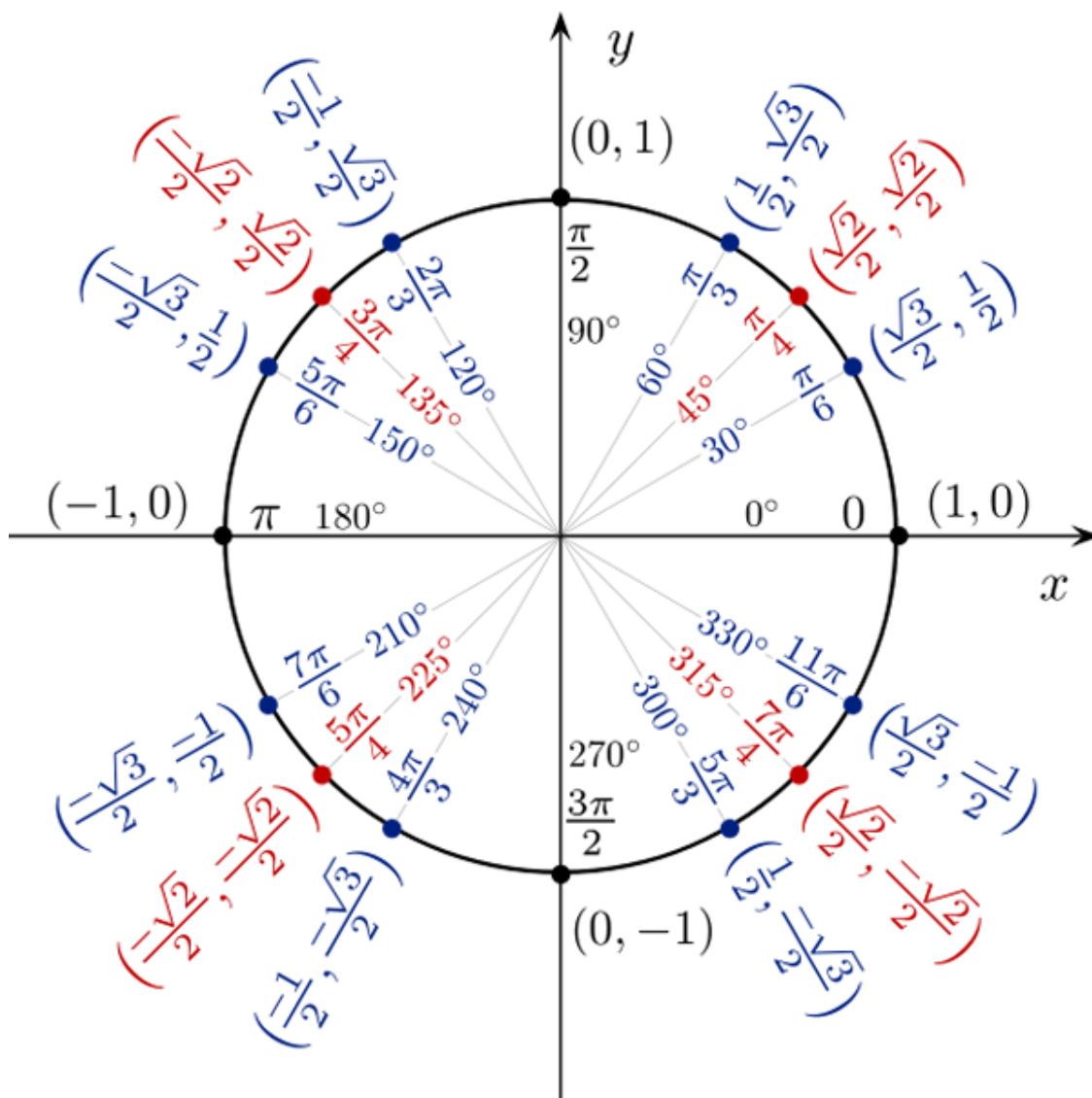
What is this?

1) What is the radius of this circle?

2) Explain the x and y coordinates are determined? (Hint: use special triangles and the answer to #1)

3) How are the degree measures converted to radians? ($30°$ to $\dfrac{\pi}{6}$, $45°$ to $\dfrac{\pi}{4}$, etc)