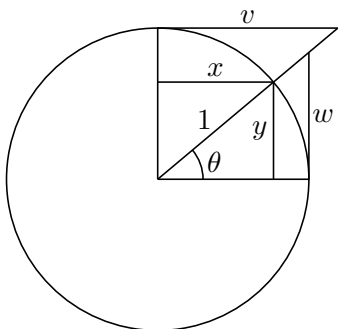


Name: _____

Mark: _____

Mini-math Div 3/4: Monday, December 14, 2020 (12 minutes)

1. (2 points) Consider the following diagram of a unit circle (lines which look perpendicular, are perpendicular):



Write x and y as trigonometric functions of θ .

2. (2 points) Express $\tan \theta$, $\sec \theta$, $\cot \theta$, and $\csc \theta$ in terms of $\sin \theta$ and $\cos \theta$.
3. (2 points) Express $\sin^2 \theta$ in terms of $\cos^2 \theta$, $\tan^2 \theta$ in terms of $\sec^2 \theta$, and $\cot^2 \theta$ in terms of $\csc^2 \theta$.

4. (2 points) Express $\sin(x + y)$ and $\cos(x + y)$ in terms of $\sin x$, $\sin y$, $\cos x$, and $\cos y$.

5. (2 points) How do you convert an angle between degrees and radians?