### 8.1 Inverse Values on the Unit Circle Notes

EQ: How do inverse values relate to the unit circle?

How do I find an inverse value?

Will there always be two locations for an inverse?

Quadrantal inverses (on the lines)

$$
\sin 30^{\circ}=\frac{1}{2}
$$

Find the inverse value in radians for $0 \leq x<2 \pi$ or $[0,2 \pi)$

1. $\cos ^{-1}\left(\frac{1}{2}\right)$
2. $\arcsin \left(-\frac{1}{\sqrt{2}}\right)$
3. $\cos ^{-1}\left(-\frac{\sqrt{2}}{2}\right)$
. $\cos ^{-1}(0)$
4. $\sin ^{-1}(-1)$
5. $\tan ^{-1} 1$

Will O's and 1's
always be quadrantal or can you draw a triangle for some?

