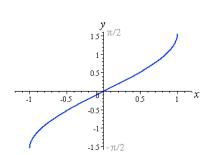
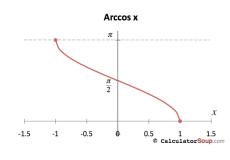
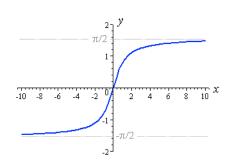
Name:____







List the range for each of the inverse functions below:

Sin⁻¹(x):

Cos⁻¹(x):

Tan⁻¹(x):

1.
$$S \operatorname{in}^{-1} \left(\sin \left(\frac{\pi}{3} \right) \right) =$$

2.
$$S \operatorname{in}^{-1} \left(\sin \left(\frac{5\pi}{6} \right) \right) =$$

*careful!

3.
$$C os^{-1} \left(cos \left(\frac{2\pi}{3} \right) \right)$$

4.
$$T \operatorname{an}^{-1} \left(\tan \left(\frac{\pi}{2} \right) \right)$$

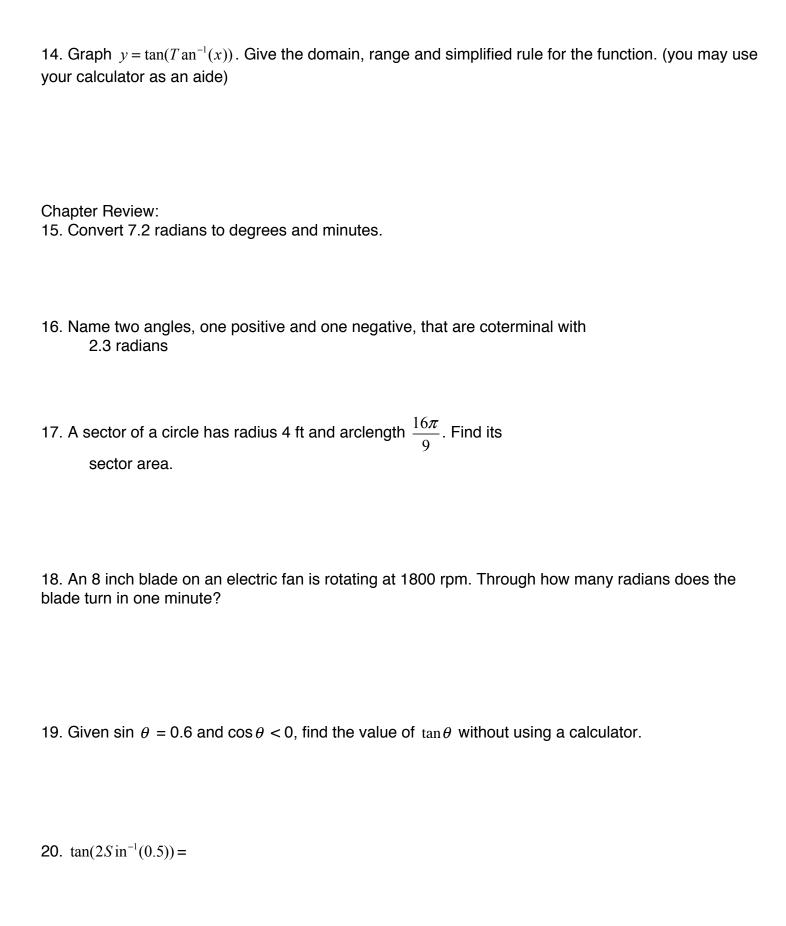
$$5. Cos^{-1} \left(cos \left(-\frac{\pi}{4} \right) \right)$$

6.
$$S \operatorname{in}^{-1} \left(\sin \left(\frac{8\pi}{3} \right) \right)$$

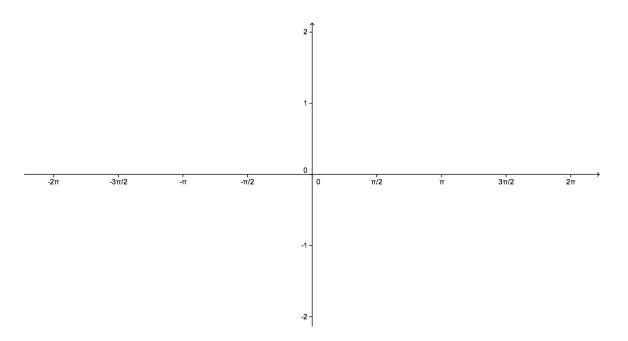
11.
$$\tan \left(C \operatorname{os}^{-1} \left(\frac{12}{13} \right) \right)$$

12.
$$\tan \left(C \operatorname{os}^{-1} \left(-\frac{12}{13} \right) \right)$$

13.
$$\csc(C \cos^{-1}(-0.4))$$



21. Graph $y=\tan\theta$. Show asymptotes and x-intercepts clearly.



22. Graph $y=\sec\theta$. It may help to draw $y=\cos\theta$ as a dotted line first.

