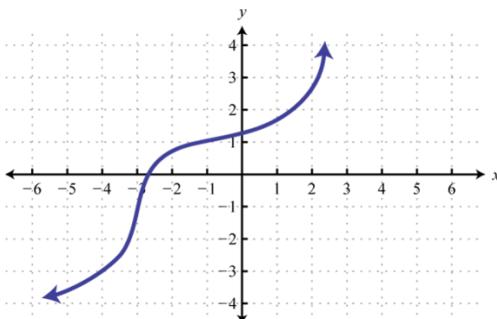


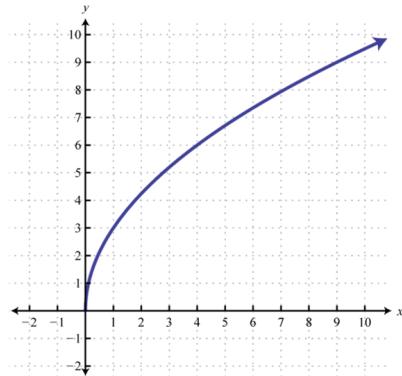
Video Quiz 7 (100 pts.)

Name: KEY

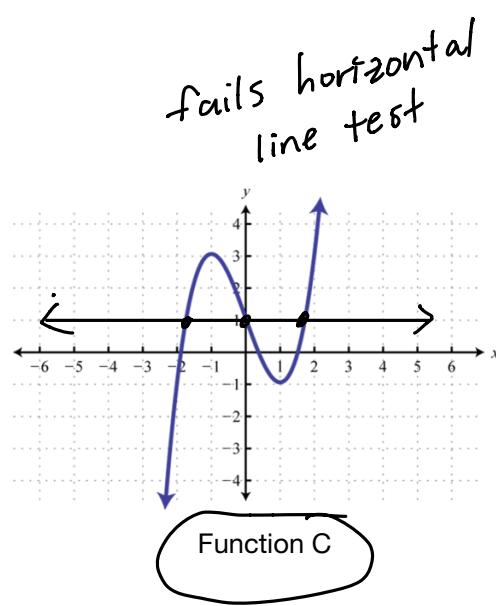
1. (1 pt.) Which of the following functions is NOT one-to-one?



Function A



Function B



Function C

2. (1 pt.) Find the exact value of $\sin(\sin^{-1}(3.1415))$.

$$= \boxed{\text{DNE}}$$

3.1415 is not in domain of \sin^{-1}

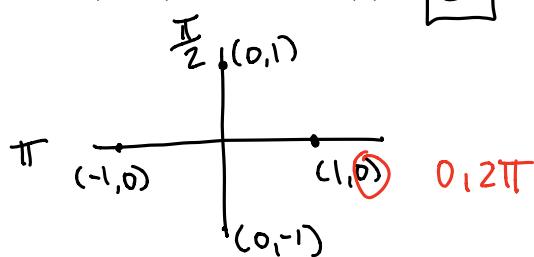
3. (1 pt.) True or False: $y = \sin x$ is one-to-one in the interval $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$.

4. (1 pt.) True or False: $y = \sin^{-1} x$ is equivalent to $y = \frac{1}{\sin x}$

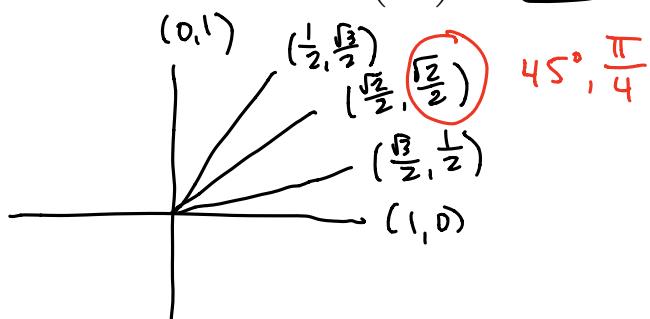
5. (1 pt.) Evaluate $\sin^{-1}(-0.0289)$ to four decimal places using a calculator.

$$\boxed{-1.6561}$$

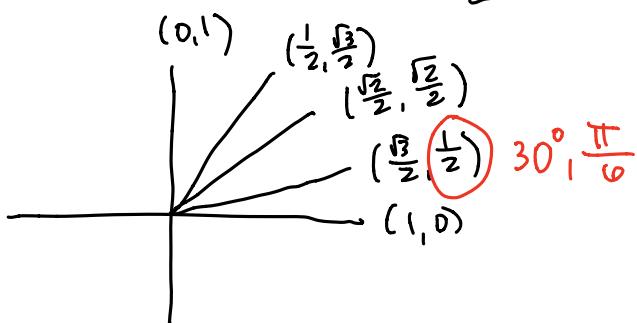
6. (1 pt.) Find $\arcsin(0)$. =



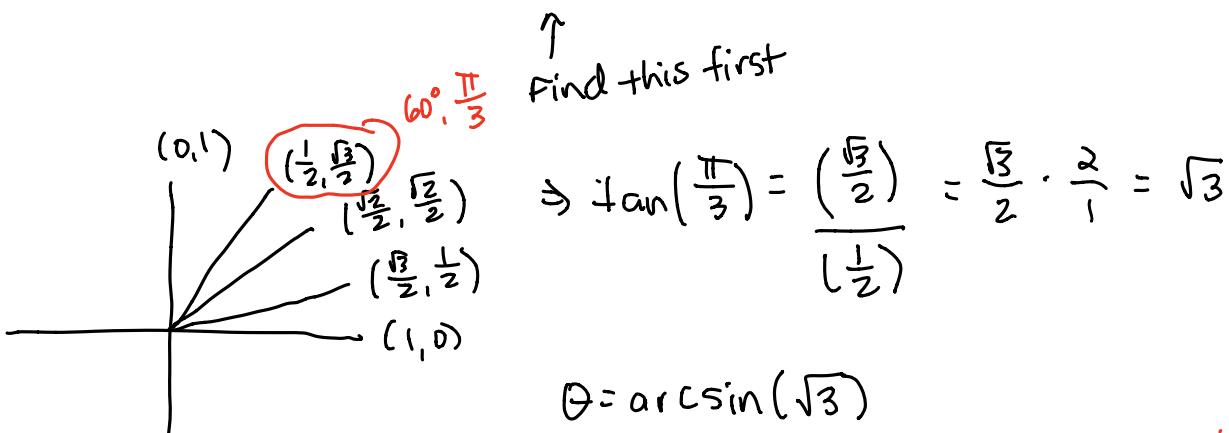
7. (1 pt.) Find $\arcsin\left(\frac{\sqrt{2}}{2}\right)$. =



8. (1 pt.) Find $\sin^{-1}\left(\frac{1}{2}\right)$. =



9. (2 pts.) Find θ if $\theta = \arcsin\left(\tan\left(\frac{\pi}{3}\right)\right)$. =



$\hookrightarrow \sqrt{3} \approx 1.7321$ not in $[-1, 1]$