

# Precalculus

## 4-09 Compositions involving Inverse Trigonometric Functions

- If \_\_\_\_\_ and \_\_\_\_\_, then
  - $\sin(\arcsin x) = \underline{\hspace{2cm}}$  and  $\arcsin(\sin y) = \underline{\hspace{2cm}}$

$$\tan(\arctan(-14))$$

$$\sin(\arcsin \pi)$$

$$\arcsin\left(\sin \frac{5\pi}{3}\right)$$

$$\arccos\left(\cos \frac{7\pi}{6}\right)$$

$$\tan^{-1}(\cos \pi)$$

$$\cos^{-1}\left(\sin\left(\frac{\pi}{6}\right)\right)$$

$$\cos\left(\tan^{-1}\left(-\frac{3}{4}\right)\right)$$

$$\sin\left(\cos^{-1}\left(\frac{2}{3}\right)\right)$$

$$\sec(\arctan x)$$