

## 5.5 – Inverse Trig Functions Day 2

Date: Key Period: \_\_\_\_\_

Evaluate the following inverse trigonometric functions. Express answers in radians.

1.)  $\sin^{-1}(1)$

$$\frac{\pi}{2}$$

2.)  $\arctan(1)$

$$\frac{\pi}{4}$$

3.)  $\arccos\left(-\frac{\sqrt{3}}{2}\right)$

$$\frac{5\pi}{6}$$

4.)  $\tan^{-1}(-\sqrt{3})$

$$-\frac{\pi}{3}$$

5.)  $\arcsin\left(-\frac{1}{2}\right)$

$$-\frac{\pi}{6}$$

6.)  $\cos^{-1}\left(\frac{\sqrt{2}}{2}\right)$

$$\frac{\pi}{4}$$

7.)  $\arctan(0)$

$$0$$

8.)  $\sin^{-1}\left(\frac{\sqrt{3}}{2}\right)$

$$\frac{\pi}{3}$$

9.)  $\arccos(1)$

$$0$$

10.)  $\tan^{-1}\left(\frac{\sqrt{3}}{3}\right)$

$$\frac{\pi}{6}$$

11.)  $\arcsin(-1)$

$$-\frac{\pi}{2}$$

12.)  $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right)$

$$\frac{\pi}{6}$$

13.)  $\arctan(\sqrt{3})$

$$\frac{\pi}{3}$$

14.)  $\sin^{-1}\left(-\frac{\sqrt{2}}{2}\right)$

$$-\frac{\pi}{4}$$

15.)  $\arccos\left(-\frac{1}{2}\right)$

$$\frac{2\pi}{3}$$

16.)  $\tan^{-1}(-1)$

$$-\frac{\pi}{4}$$

17.)  $\arcsin\left(\frac{1}{2}\right)$

$$\frac{\pi}{6}$$

18.)  $\cos^{-1}(-1)$

$$\pi$$