



NAME : \_\_\_\_\_

CLASS : \_\_\_\_\_

DATE : \_\_\_\_\_

**Inverse Trig Functions**

13 Questions

1.  $\sin[\arcsin(\frac{1}{2})]$

a)  $\frac{\pi}{6}$

b)  $\frac{1}{2}$

c)  $60^\circ$

d) no solution

2.  $\arccos[\cos(\frac{7\pi}{4})]$

a)  $\frac{\pi}{4}$

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

c)  $\frac{7\pi}{4}$

d)  $\frac{3\pi}{4}$

3.  $\tan[\arctan(10)]$

a) no solution

b) -10

c)  $\frac{1}{10}$

d) 10

4.  $\arcsin[\sin(\frac{4\pi}{3})]$

a)  $\frac{\pi}{3}$

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

c)  $\frac{4\pi}{3}$

d)  $\frac{5\pi}{3}$

5.  $\cos[\arccos(-2)]$

a) -2

b) no solution

c) 2

d)  $\frac{1}{2}$

6.  $\arcsin\left[\sin\left(\frac{\pi}{6}\right)\right]$

a)  $\frac{1}{2}$

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

b)  $\frac{\pi}{6}$

 d) no solution

7.  $\arccos\left[\cos\left(\frac{2\pi}{3}\right)\right]$

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

c)  $\frac{1}{2}$

b)  $\frac{\pi}{3}$

 d) no solution

8.  $\arctan\left[\tan\left(\frac{5\pi}{4}\right)\right]$

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

c)  $\frac{5\pi}{4}$

b)  $\frac{\pi}{4}$

d)  $\frac{3\pi}{4}$

9.  $\cos\left[\arccos\left(\frac{1}{3}\right)\right]$

a) 3

c) -3

b)  $\frac{1}{3}$

 d) no solution

10.  $\sin[\arcsin(0.11)]$

 a) no solution

c) 0.11

b) 11

d) -0.11

11.  $\arcsin\left[\sin\left(\frac{\pi}{3}\right)\right]$

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

c)  $\frac{\sqrt{3}}{2}$

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

d)  $\frac{\pi}{3}$

12.  $\arccos\left[\cos\left(\frac{11\pi}{6}\right)\right]$

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

b)  $\frac{\pi}{6}$

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

d)  $\frac{7\pi}{6}$

13.  $\arctan\left[\tan\left(\frac{2\pi}{3}\right)\right]$

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

b)  $\frac{\pi}{3}$

c)  $\frac{5\pi}{3}$

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

### Answer Key

- 1. b
- 2. a
- 3. d
- 4. b

- 5. b
- 6. b
- 7. a
- 8. b

- 9. b
- 10. c
- 11. d
- 12. b

- 13. a

# Inverse Trig Quiz 2

\* Required

1. Find the exact value of  $\cos(\arctan(3/4))$  \*

2 points

*Mark only one oval.*

- 4/5
- 3/8
- 4/5
- 3/8
- 8/3
- 5/4

2. Find the exact value of  $\sec(\arctan(12/5))$  \*

2 points

*Mark only one oval.*

- 6/7
- 7/6
- 6/7
- 13/5
- 13/5
- 4

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