

Inverse Functions
Part 2

1. Evaluate the expression without using a calculator
(similar to p.47 #95-101)

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

2. Evaluate the expression without using a calculator
(similar to p.47 #95-101)

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

3. Evaluate the expression without using a calculator
(similar to p.47 #95-101)

$$\arctan\left(\frac{-\sqrt{3}}{3}\right)$$

4. Evaluate the expression without using a calculator
(similar to p.47 #95-101)

$$\text{arc cot}(\sqrt{3})$$

5. Evaluate the expression without using a calculator [Hint: Sketch a right triangle]
(similar to p.47 #117-122)

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

6. Evaluate the expression without using a calculator [Hint: Sketch a right triangle] (similar to p.47 #117-122)

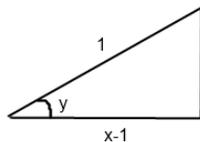
$$\tan\left(\arccos\frac{3}{7}\right)$$

7. Evaluate the expression without using a calculator [Hint: Sketch a right triangle] (similar to p.47 #117-122)

$$\sec\left(\arctan\frac{-4}{3}\right)$$

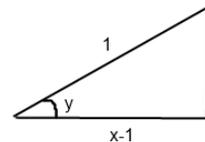
8. Use the figure to write the expression in algebraic form given $y = \arccos(x-1)$, where $0 < y < \pi/2$ (similar to p.47 #123-127)

$\cos y$



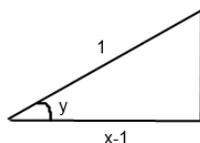
9. Use the figure to write the expression in algebraic form given $y = \arccos(x-1)$, where $0 < y < \pi/2$ (similar to p.47 #123-127)

$\tan y$



10. Use the figure to write the expression in algebraic form given $y = \arccos(x-1)$, where $0 < y < \pi/2$ (similar to p.47 #123-127)

$\csc y$



11. Write the expression in algebraic form. [Hint: Sketch a right triangle] (similar to p.47 #129-137)

$$\sec(\arccos 3x)$$

12. Write the expression in algebraic form. [Hint: Sketch a right triangle]
(similar to p.47 #129-137)

$$\csc\left(\arctan\frac{x-1}{2}\right)$$