

Find the exact value of the expression.

1) $\cos^{-1} \frac{\sqrt{2}}{2}$

1) _____

2) $\sin^{-1} (-0.5)$

2) _____

3) $\tan^{-1} (1)$

3) _____

Use a calculator to find the value of the expression rounded to two decimal places.

4) $\cos^{-1} \left(\frac{3}{8} \right)$

4) _____

5) $\sin^{-1} \left(\frac{\sqrt{2}}{5} \right)$

5) _____

Find the exact value of the expression. Do not use a calculator.

6) $\cos [\cos^{-1} (-0.9372)]$

6) _____

7) $\sin^{-1} \left[\sin \left(\frac{5\pi}{7} \right) \right]$

7) _____

8) $\tan^{-1} \left[\tan \left(-\frac{\pi}{8} \right) \right]$

8) _____

Find the inverse function f^{-1} of the function f .

9) $f(x) = -9 \cos(6x)$

9) _____

Find the exact solution of the equation.

10) $3 \sin^{-1} x = \pi$

10) _____

11) $7 \sin^{-1} x - 4\pi = 5 \sin^{-1} x - 5\pi$

11) _____