

Section 6.3 Exercises

Evaluate the following expressions.

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

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

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

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

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

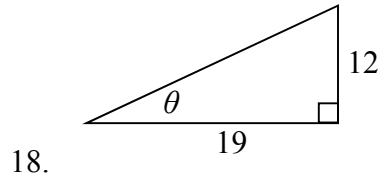
$$12. \tan^{-1}(-1)$$

Use your calculator to evaluate each expression.

14. $\cos^{-1}(0.8)$

16. $\tan^{-1}(6)$

Find the angle θ .



Evaluate the following expressions.

$$20. \cos^{-1}\left(\sin\left(\frac{\pi}{6}\right)\right)$$

$$22. \sin\left(\cos^{-1}\left(\frac{4}{9}\right)\right)$$

$$24. \tan\left(\sin^{-1}\left(\frac{1}{3}\right)\right)$$

Find a simplified expression for each of the following.

26. $\sin(\tan^{-1}(3x))$

