

Find the five remaining trig functions

1. $\sec\theta = \frac{\sqrt{10}}{2}$

Find the six trig functions given a point

2. $P(-2, 7)$

Find the exact value of each of the remaining trigonometric functions.

$$3. \cos \theta = \frac{3}{4} \quad \tan \theta < 0$$

$$4. \tan \theta = \frac{-\sqrt{2}}{5} \quad \frac{3\pi}{2} < \theta < 2\pi$$

Find the value using your calculator and then draw the triangle represented by the trig function.

$$5. \cos(110^\circ) =$$

$$6. \sin^{-1}(-.265) =$$

Solve the equation using your calculator give answers between $0 \leq \theta \leq 360$

7. $\sin(\theta) = .636$

Solve the equation using your calculator give answers between $0 \leq \theta \leq 2\pi$

7A. $\sin^2 x + \cos x = .5$

Find the exact value of the expression

8. $\sin(405^\circ) =$

9. $\cos(540) =$

10. $\tan(570^\circ) =$

Find the exact value of the expression

$$11. \sin^{-1}\left(\frac{-\sqrt{3}}{2}\right) =$$

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

$$13. \tan^{-1}(-1) =$$

Solve the equation between

$$0 \leq \theta < 2\pi$$

$$14. \cos \theta = \frac{\sqrt{2}}{2}$$

$$15. \sin(2\theta) = \frac{1}{2}$$

$$16. \cos\left(\frac{\theta}{2}\right) = -1$$

Solve the equation between

$$0 \leq \theta < 2\pi$$

17. $5\cot(\theta) + 3 = 8$

18. $\cos^2(\theta) - 2\cos\theta + 1 = 0$

19. $\cos^2(\theta) - 2\cos\theta = 0$

Find the exact value of the expression

20. $\sin\left(\tan^{-1}(-1)\right)$

21. $\tan\left(\cos^{-1}\left(\frac{1}{2}\right)\right)$

22. $\sin^{-1}(\cos 135^\circ)$

23. $\cos^{-1}\left(\tan \frac{5\pi}{6}\right)$