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

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 $0 \le \theta \le 360$

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

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

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

Find the exact value of the expression

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

9. $\cos\left(540\right)=$

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

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

$$0 \le \theta < 2\pi$$

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

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

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

Solve the equation between $0 \le \theta < 2\pi$

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