Solving Trig Equations: Review

Solve. Give answers between 0 and 360 degrees

1. $2\cos\theta+1=0$

2. $\sqrt{3}\csc\theta-2=0$

3. $3\sec^2\theta-4=0$

4. $2\sin^2(2\theta)=1$

5. $4\sin^2\theta-3=0$

6. $\sin^2\theta=3\cos^2\theta$

8. $\cos 2\theta(2\cos\theta+1)$

9. $3\tan^3\theta=\tan\theta$

10. $\sec^2\theta-\sec\theta=2$

13. $\cos\left(\frac{\theta}{2}\right)=\frac{\sqrt{2}}{2}$

14. $2\sin^2\theta+3\sin\theta+1=0$

Solve. Give answers between 0 and 360 degrees

1. $\tan\theta = 1$

2. $\tan\theta = 0$

3. $sin\theta = \frac{\sqrt{3}}{2}$

4. $cos\theta = 0$

5. $\sin(\theta) = \frac{\sqrt{2}}{2}$

6. $\cos(\theta) = -1$

7. $\cos\theta = .365$

8. $\sin(\theta) = .4$

9. $\cos\theta = -.653$

10. $\sin(\theta) = -.2$

Solve. Give answers between 0 and 360 degrees

1. $\tan\theta = 1$

2. $\tan\theta = 0$

3. $\sin 2\theta = \frac{\sqrt{3}}{2}$

4. $\cos 3\theta = 0$

5. $\sin\left(\frac{\theta}{3}\right) = \frac{\sqrt{2}}{2}$

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

7. $\cos\left(\theta + \frac{\pi}{9}\right) = \frac{\sqrt{3}}{2}$

8. $\sin\left(\theta + \frac{\pi}{6}\right) = -\frac{\sqrt{2}}{2}$

9. $\cos\theta = .25$

10. $\sin(\theta) = -.4$

Solve. Give answers between 0 and 360 degrees

1. $2\cos\theta+1=0$

2. $\sqrt{3}\csc\theta-2=0$

3. $3\sec^2\theta-4=0$

4. $2\sin^2(2\theta)=1$

5. $4\sin^2\theta-3=0$

6. $\sin^2\theta=3\cos^2\theta$

8. $\cos 2\theta(2\cos\theta+1)$

9. $3\tan^3\theta=\tan\theta$

10. $\sec^2\theta-\sec\theta=2$

13. $\cos\left(\frac{\theta}{2}\right)=\frac{\sqrt{2}}{2}$

14. $2\sin^2\theta+3\sin\theta+1=0$

Solve. Give answers between 0 and 360 degrees

1. $\tan\theta = 1$

2. $\tan\theta = 0$

3. $\sin 2\theta = \frac{\sqrt{3}}{2}$

4. $\cos 3\theta = 0$

5. $\sin\left(\frac{\theta}{3}\right) = \frac{\sqrt{2}}{2}$

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

7. $\cos\left(\theta + \frac{\pi}{9}\right) = \frac{\sqrt{3}}{2}$

8. $\sin\left(\theta + \frac{\pi}{6}\right) = -\frac{\sqrt{2}}{2}$

9. $\cos\theta = .25$

10. $\sin(\theta) = -.4$