

14.2 More Trig. Equations

Solve each equation for $0 \leq \theta < 2\pi$.

1) $4 + \csc \theta = 2$

2) $4\cos \theta = -2\sqrt{3}$

3) $-3 - 2\sec \theta = -7$

4) $-3 - \cot \theta = -3$

5) $0 = 2\cot \theta \cos \theta + \sqrt{2}\cot \theta$

6) $2\sec^2 \theta = \sec^2 \theta + 2$

7) $2\sin \theta + 3\sin^2 \theta = 2\sin^2 \theta - 1$

8) $-4\sec \theta = \tan^2 \theta + 5$

$$9) \csc \theta + 2\cot \theta = -\sqrt{3}\csc \theta \cot \theta + 2\cot \theta$$

$$10) -\cot^2 \theta = 3\csc \theta + 3$$

$$11) -2 = -\sin^2 \theta - 4\cos \theta + 3\cos^2 \theta$$

$$12) \sin^2 \theta + 2 = -3\sin \theta + \cos^2 \theta$$

$$13) -\sec \theta + 1 - \tan^2 \theta = 0$$

$$14) -2\cot \theta = -\csc^2 \theta$$

$$15) 2 + 2\sec \theta = -\tan^2 \theta$$

$$16) -\sqrt{3}\csc \theta \cot \theta - 3\csc \theta - \cot \theta = -\cot \theta$$