Trigonometric Equations
General Solutions to Trigonometric Equations 2

Solve each equation below for $0° \leq x \leq 360°$ or $0 \leq x \leq 2\pi$.

1) $-0.91 = \cos \theta$

2) $\cos \theta = \dfrac{\sqrt{2}}{2}$

3) $\sin \theta = \dfrac{\sqrt{2}}{2}$

4) $3 - \dfrac{1}{3} \cdot \tan \theta = \dfrac{9 - \sqrt{3}}{3}$

5) $4 + 4\tan \theta = 4$

6) $4 - 4\cos \theta = 4$

7) $-5 + 6\sin \theta = -2$

8) $-4 - \dfrac{1}{5} \cdot \tan \theta = -\dfrac{19}{5}$

9) $5 = 2 - 3\tan \theta$

10) $-2 + \dfrac{7}{3} \cdot \csc \left(2\theta + \dfrac{4\pi}{3}\right) = -\dfrac{8}{3} + 2\csc \left(2\theta + \dfrac{4\pi}{3}\right)$

11) $3 - 2\csc \left(\dfrac{\theta}{3} + \dfrac{2\pi}{3}\right) = -1 - 4\csc \left(\dfrac{\theta}{3} + \dfrac{2\pi}{3}\right)$

12) $-\sqrt{3} - 7 = -7 - \dfrac{3}{2} \cdot \csc \left(4\theta + \dfrac{5\pi}{4}\right)$