Math 122 – Trigonometry Name_____
Section [3.3] Video Worksheet – 9th Edition

Solve each equation on the interval $0 \leq \theta \leq 2\pi$

- $1 - \cos\theta = \frac{1}{2}$
- $\sin(3\,\theta) = -1$
- $2\sin^2\theta - 1 = 0$

Solve each equation and give the general formula for getting all solutions. Put down six of them

- $\tan 2\theta = -1$
- $\cos(2\theta) = -\frac{1}{2}$
- $\tan\left(\frac{\theta}{2}\right) = \sqrt{3}$

Solve each equation on the interval $0 \leq \theta \leq 2\pi$

- $\sin(3\,\theta + \frac{\pi}{18}) = 1$
- $(\cot\theta + 1)(\csc\theta - \frac{1}{2}) = 0$

- $2\cos^2\theta - 7\cos\theta - 4 = 0$

- $\cos^2\theta - \sin^2\theta + \sin\theta = 0$

- $\cos\theta = -\sin(-\theta)$