

### **Section 5.3 – I.C.E – Solving Trig Equations**

Solve the following trig equations and give all possible solutions in the interval  $[0, 2\pi)$ .

$$1. \quad 2\sin\theta + 1 = 0$$

$$2. \quad \tan\theta + \sqrt{3} = 0$$

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

$$4. \quad 2\sin^2\theta = 1$$

$$5. \quad 2\cos\theta\sin\theta - \cos\theta = 0$$

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

7.  $\sec \theta \csc \theta = 2 \csc \theta$

8.  $\sec^2 x - 1 = 0$

9.  $(3\tan^2 x - 1)(\tan^2 x - 3) = 0$

10.  $2\sin^2 x = 2 + \cos x$