

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

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

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

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

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

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

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