

EXTRA TRIG EQUATIONS TO SOLVE – MULTIPLE ANGLE ARGUMENTS

SOLVE EACH EQUATION IN THE INTERVAL  $[0, 2\pi)$

1.  $10\cos(x) + 2 = -3$

2.  $2\sin(x) = 1$

3.  $\tan(x) + 1 = 0$

4.  $4\cos^2(x) - 10 = -7$

5.  $3\tan^2(x) + 1 = 4$

6.  $4\cos^2(x) - 2 = 0$  Hint: Both of  $\sqrt{\frac{2}{4}}$  and  $\sqrt{\frac{1}{2}}$  are equal to  $\frac{\sqrt{2}}{2}$

7.  $3\tan(x) - 1 = 0$

8.  $2\cos(x) = 1$

9.  $2\sin(x) + 5\sqrt{3} = 4\sqrt{3}$

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

11.  $2\sin(x) + \sqrt{2} = 0$