Name_____

Date_____

Advanced Algebra

Chapter 10- Trigonometry

Solving Trig Equations #12

Solve each equation for the principal value of θ. θ values should be given in degrees.

1) $2\sin\theta + 1 = 0$

2) $2\cos\theta - 1 = 0$

3) $\sqrt{2}\sin\theta - 1 = 0$

4) $2\cos\theta + 1 = 0$

5) $2\cos\theta - \sqrt{3} = 0$

6) $\sin(2\theta) - 1 = 0$

7) $\cos(3\theta) - .5 = 0$

8) $\tan(2\theta) - \sqrt{3} = 0$

9) $\cos(2\theta) = \cos\theta$

10) $\sin\theta = \tan\theta$

11) $\sin\theta + \sin\theta\cos\theta = 0$

12) $\sin\theta = \cos\theta$

13) $\cos(2\theta) + \cos\theta + 1 = 0$

14) $\tan^2\theta - \sqrt{3}\tan\theta = 0$