HW#___ Name:_____

Trigonometric Equations Practice

Solve for all possible values of x in radians. Write solutions in exact form.

1) Hint: isolate cosx

$\cos x + \sqrt{3} = -\cos x$

2) Hint: isolate $\sin^2\Theta$ and use square root

$4\sin^2\theta - 3 = 0$

3) Hint: move everything to one side and factore

$2\cos\theta\sin\theta = \cos\theta$

4) Hint: isolate $\sin\Theta$

$5(\sin\theta + 1) = 5$

5) $7\tan\theta = 3\sqrt{3} + \tan\theta$

6) $2\sin\theta\cos\theta + \cos\theta = 0$

7) $2\cos\theta - 1 = 0$

8) $4\sin\theta - 1 = 2\sin\theta + 1$