You must complete this before retaking the MC again. Remember it is all about LEARNING so take your time and learn how to do these skills. If you need help please ask!

NAME:	

## Corrective Assignment 11.4

Directions: Tell whether each s	tatement is true.		
1) $\cos(\frac{80}{2}^{\circ}) = \pm \sqrt{\frac{1 - \cos 80}{2}}$	2) $\sin 60^\circ = 2 \sin 30^\circ \cos 30^\circ$	s 30°	3) $\tan 100^\circ = -\sqrt{\frac{1-\cos 200^\circ}{1+\cos 200^\circ}}$
Directions: Find the exact value	of the given function.		
<b>4)</b> cos 15°		5) $\sin \frac{7\pi}{12}$	
		12	
Ninestiana For #4 Or Thain w	— <sup>4</sup> and wig in Overdre	 	alua Nasuu tha mafamana
Directions: For #6-9: If $\sin x$ triangle.	— - and x is in Quadra	nt 11, tina each v	alue. Draw the reterence
6) cos 2 <i>x</i>		7) $\sin \frac{x}{2}$	
		2	

Directions: For #10-13: If  $\cos\theta=-\frac{2}{3}$  and x is in Quadrant II, find each value. Draw the reference triangle. 8)  $\tan 2\theta$  9)  $\cos\frac{\theta}{2}$ 

Directions: Verify the following identities.

$10) \frac{2\cos 2x}{\sin 2x}$	$= \cot x - \tan x$	
$\sin 2x$	coex tanx	

11)  $\cot x \sin 2x = 1 + \cos 2x$ 

## ANSWERS TO CORRECTIVE ASSIGNMENT:

Make sure you check all your answers and make sure you KNOW how to do all of them. You could simply copy answers but that's not the point. The point is that you have to learn how to do this so please make sure that for any you don't understand you get help BEFORE taking the Mastery Check again.

1) No, should be + cos 80 2) Yes 3) Yes 4)  $\sqrt{\frac{2+\sqrt{3}}{4}}$  or  $\frac{\sqrt{2+\sqrt{3}}}{2}$  5)  $\sqrt{\frac{2+\sqrt{3}}{4}}$  or  $\frac{\sqrt{2+\sqrt{3}}}{2}$  6)  $-\frac{7}{25}$  7)  $\frac{2\sqrt{5}}{5}$  8)  $4\sqrt{5}$  9)  $\frac{\sqrt{6}}{6}$ 10) One Possibility
11) One Possibility  $\frac{2(\cos^2 x - \sin^2 x)}{2\sin x \cos x} = \cot x - \tan x$   $\frac{\cos x}{\sin x} (2\sin x \cos x) = 1 + \cos 2x$   $\frac{(\cos^2 x - \sin^2 x)}{\sin x \cos x} = \cot x - \tan x$   $\cos x (2\cos x) = 1 + \cos 2x$ 

$$\frac{(\cos^2 x - \sin^2 x)}{\sin x \cos x} = \cot x - \tan x$$

$$\cos x (2 \cos x) = 1 + \cos 2x$$

$$\frac{\cos^2 x}{\sin x \cos x} - \frac{\sin^2 x}{\sin x \cos x} = \cot x - \tan x$$

$$2 \cos^2 x = 1 + \cos 2x$$

$$\frac{\cos x}{\sin x} - \frac{\sin x}{\cos x} = \cot x - \tan x$$

$$2 \cos^2 x = 1 + 2\cos^2 x - 1$$

$$\cot x - \tan x = \cot x - \tan x$$

$$2 \cos^2 x = 2 \cos^2 x$$