Name: _____ Date:_____

Period: _____ Trig: Chapter 6 Review

Double Angle Formulas:

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

$=$ _____

$=$ _____

The Chart!!

θ	0	30	45	60	90
$\sin\ \theta$					
$\cos\ \theta$					
$\tan\ \theta$					

Solving Trig Equations:

1. $\sin x + 2\sin x \cos x = 0$

2. $\sin(3A + 30) = \frac{1}{2}$

3. $2\cos\theta + 1 = \sec\theta$

4. $2\sin x + \cot x - \csc x = 0$

5. $\sin\theta - \sqrt{3}\cos\theta = \sqrt{3}$

6. $\cos 2\theta = \frac{\sqrt{3}}{2}$ *if* $0 \le \theta < 360$

7. $\tan 3x = 1$ *if* $-\frac{\pi}{2} < x < \frac{\pi}{2}$

8. $\sin 2x \cos x + \cos 2x \sin x = \frac{1}{\sqrt{2}}$ *if* $0 \le x \le 2\pi$

9. $2\sin^2 3\theta - \sin 3\theta - 1 = 0$ *if* $0 \le \theta < 360$

10. $\tan^2 3x = 1$ *if* $-\frac{\pi}{2} < x < \frac{\pi}{2}$