Solving Trig Equations
Homework **Name _____**

Solve each equation for [0,2π).

1. $2\sin(x) - 1 = 0$
2. $2\cos(x) + 1 = 0$
3. $\cos(2x) + \sin(x) = 1$
4. $2\sin(x)\tan(x) - 2\sin(x) = 0$
5. $2\sin^2(x) - 5\sin(x) + 2 = 0$
6. $2\cos^2(x) = \cos(x) + 1$
7. $\tan(x) - \tan(x)\cos^2(x) = 0$
8. $2\cos^2(x) + \cos(x) = 0$

Solve each equation for <u>all</u> values.

9. $\sin^2(x) - 3\sin(x) + 2 = 0$
10. $2\cos^2(x) - 7\cos(x) - 4 = 0$
11. $3\sin^2(x) - \cos^2(x) = 0$
12. $\cos^2(x) = 1$