Pre – Calculus Name _____
Section 5.3 Practice

If the problem says "F.A.S." please find all solutions on the interval $[0,2\pi)$. If it says "STE" please solve the equation.

1. $4\cos^2 x = 5 - 4\sin x$ [FAS]

2. $2\cos x + \sqrt{3} = 0$ [FAS]

3. $\sec^2 x - 2 = 0$ [STE]

4. $4\cos x = 1 + 2\cos x$ [FAS]

5. $\csc^2 x - 2 = 0$ [FAS]

6. $\sqrt{3}\tan x - 1 = 0$ [FAS]

7. $2\sin^2 x + \sin x - 1 = 0$ [FAS]

8. $\sin^2 x - 2\cos x - 2 = 0$ [STE]

9. $4\cos^2 x - 1 = 0$ [STE]

10. $3\sin\theta + 5 = -2\sin\theta$ [FAS]

11. $\sec^2 x - \sec x = 2$ [FAS]

12. $3\sqrt{3}\tan x = 3$ [STE]

13. $\sec x \csc x = 2\csc x$ [STE]

14. $3\tan^3 x = \tan x$ [FAS]

15. $2\cos^2 x + \sin x - 1 = 0$ [FAS]

16. $2\sin^2 x = \sin x + 3$ [FAS]

17. $\cos x = -\frac{1}{2}$ [STE]