TRIG REVIEW HOMEWORK No calculator except questions #14 & 20

I. EVALUATE THE FOLLOWING

1. $\sin\frac{\pi}{6}$	2. $\cos\frac{5\pi}{6}$	3. $\sin\frac{8\pi}{3}$	4. $tan\frac{3\pi}{4}$
5. $arcos\left(\frac{1}{2}\right)$	6. $sin^{-1}\left(-\frac{\sqrt{3}}{2}\right)$	7. $arctan(\sqrt{3})$	8. $cos^{-1}(-1)$
9. $tan^{-1}(1)$	10. $csc^{-1}(\sqrt{2})$	11. $\arcsin(-1)$	12. $arctan\left(\frac{\sqrt{3}}{3}\right)$

II. Solve on $[0, 2\pi)$

13. $2sin^2x + 3sinx + 1 = 0$	14. $4sin^2x = 2cosx + 1$	15. $\frac{cosxcotx}{1-sinx} = 3$
16. $2sin^2x - sinx - 1 = 0$	17. $1 + sinx = 2cos^2x$	18. $sin^2x - 1 = 0$
19. $cscx + cotx = 1$	20. $sec^2x + .5tanx = 1$	You Rock Trig Equations!

III. Simplify the following to simple trig functions:

21. $cosx + tanxsinx$	22. $sin^3x + sinxcos^2x$	23. $\frac{cscx-sinx}{cscx}$	24. $\frac{sinx}{cosx} + \frac{cosx}{1+sinx}$