**Trig/Precalc Quiz Review #2 Name:**

**Evaluate each expression using your unit circle.**

1. sec 180° 2. sin 45° 3. cos $\frac{5π}{3}$

4. $\tan(\frac{3π}{4})$ 5. $\csc(5π)$ 6. $\tan(\frac{2π}{3})$

**Simplify each expression**

7.  8. (cos2 x)(sec x)(tan x)

9. $\cos(θtan^{2}θ+\cos(θ))$10.$\frac{1-sin^{2}x}{1-cos^{2}x}$.

**Verify each identity.**

11.cos (90 - ) = sin  12. csc2 = cot2 + sincsc

13.  14. sec x csc x = tan x + cot x

15. Solve $\cos(x\tan(x- sin^{2}x=0))$ for all real values of x.

16. Solve $2cos^{2}x=\sqrt{3}\cos(x)$ for principal values of x. Express the solution(s) in degrees.

17. Solve $\csc(x+2=0 for 0°\leq x<360°.)$

18. Solve $2\sin(x+ \sqrt{3}<0 for 0\leq x<2π.)$

19. Solve $2\cos(x- sin^{2}x+2=0)$ for all real values of x.

**Evaluate each limit**

20. 21.

22. 23.

24. 25.

26. 27.

28.

29.