Pre-Calc **Exact Values of Trig Functions** **Name**_____
Mrs. Wilson **Date**_____ **Block**_____

Calculate the exact value of each of the following.

1. $\sin \frac{\pi}{4}$ $\frac{\sqrt{2}}{2}$

2. $\cos \frac{\pi}{4}$ $\frac{\sqrt{2}}{2}$

3. $\tan \frac{\pi}{4}$ 1

4. $\cos 210°$ $-\frac{\sqrt{3}}{2}$

5. $\sin 300°$ $-\frac{\sqrt{3}}{2}$

6. $\tan 330°$ $-\frac{\sqrt{3}}{3}$

7. $\sin \frac{3\pi}{4}$ $\frac{\sqrt{2}}{2}$

8. $\cos \frac{3\pi}{4}$ $-\frac{\sqrt{2}}{2}$

9. $\tan \frac{3\pi}{4}$ -1

10. $\sin 90°$ 1

11. $\cos 270°$ 0

12. $\tan 45°$ 1

13. $\cos \frac{3\pi}{2}$ 0

14. $\tan \frac{3\pi}{2}$ UND

15. $\sin \frac{3\pi}{2}$ -1

16. $\sin -450°$ -1

17. $\tan \frac{19\pi}{6}$ $\frac{\sqrt{3}}{3}$

18. $\cos 405°$ $\frac{\sqrt{2}}{2}$

19. $\tan 810°$ UND

20. $\cos -\frac{9\pi}{4}$ $\frac{\sqrt{2}}{2}$

21. $\sin -690°$ $\frac{1}{2}$

22. $\tan -\frac{7\pi}{6}$ $-\frac{\sqrt{3}}{3}$

23. $\cos \frac{25\pi}{3}$ $\frac{1}{2}$

24. $\sin -540°$ 0

25. $\sin 90° + \cos 90°$

$1 + 0 = 1$

26. $\cos \frac{7\pi}{6} - \tan \frac{7\pi}{4}$

$-\frac{\sqrt{3}}{2} - -1 = \frac{-\sqrt{3}+2}{2}$

27. $\cos 135° + \sin 780°$

$-\frac{\sqrt{2}}{2} + \frac{\sqrt{3}}{2} = \frac{\sqrt{3}-\sqrt{2}}{2}$

28. $\tan 240° + \cos \frac{\pi}{3}$

$\sqrt{3} + \frac{1}{2} = \frac{2\sqrt{3}+1}{2}$