

II. Find each exact trig value. No Calculator!!

$$1. \sin \frac{\pi}{4} = \frac{\sqrt{2}}{2} \quad 2. \cos \frac{\pi}{4} = \frac{\sqrt{2}}{2} \quad 3. \tan \frac{\pi}{4} = 1 \quad 4. \cos 210^\circ = -\frac{\sqrt{3}}{2}$$

$$5. \sin 300^\circ = -\frac{\sqrt{3}}{2} \quad 6. \tan 330^\circ = -\frac{\sqrt{3}}{3} \quad 7. \sin \frac{3\pi}{4} = \frac{\sqrt{2}}{2} \quad 8. \cos \frac{2\pi}{3} = -\frac{1}{2}$$

$$9. \tan \frac{7\pi}{6} = \frac{\sqrt{3}}{3} \quad 10. \sin 90^\circ = 1 \quad 11. \csc 270^\circ = -1 \quad 12. \sec \frac{4\pi}{3} = -2$$

$$13. \cot \frac{3\pi}{2} = 0 \quad 14. \sec(-240^\circ) = -2 \quad 15. \csc\left(-\frac{\pi}{6}\right) = -2 \quad 16. \cot 135^\circ = -1$$

III. Evaluate. No calculator!!

17. $\sin 30^\circ - \cos 120^\circ$

$$\frac{1}{2} - \left(-\frac{1}{2}\right)$$

$$\boxed{1}$$

18. $\sin 240^\circ \cos 330^\circ$

$$\left(-\frac{\sqrt{3}}{2}\right)\left(\frac{\sqrt{3}}{2}\right)$$

$$\boxed{-\frac{3}{4}}$$

19. $\tan 180^\circ + \sec 330^\circ$

$$0 + \frac{2\sqrt{3}}{3}$$

$$\boxed{\frac{2\sqrt{3}}{3}}$$

20. $\cos \frac{3\pi}{2} + \cos\left(-\frac{5\pi}{6}\right)$

$$0 + \left(-\frac{\sqrt{3}}{2}\right)$$

$$\boxed{-\frac{\sqrt{3}}{2}}$$

21. $\sin\left(-\frac{\pi}{6}\right)\cos\left(-\frac{2\pi}{3}\right)$

$$\left(-\frac{1}{2}\right)\left(-\frac{1}{2}\right)$$

$$\boxed{\frac{1}{4}}$$

22. $\cos(-90^\circ) + \tan 180^\circ$

$$0 + 0$$

$$\boxed{0}$$

23. $(\cos 180^\circ)(\tan 60^\circ)$

$$(-1)(\sqrt{3})$$

$$\boxed{-\sqrt{3}}$$

24. $(\sec 210^\circ)(\csc 150^\circ)$

$$\left(-\frac{2\sqrt{3}}{3}\right)(2)$$

$$\boxed{-\frac{4\sqrt{3}}{3}}$$

25. $(\cot 30^\circ)(\sin 270^\circ)$

$$(\sqrt{3})(-1)$$

$$\boxed{-\sqrt{3}}$$