

Name _____

Period _____

Find the exact value of each expression if it is defined.

1. $\sin^{-1}\left(\frac{1}{2}\right) =$

2. $\cos^{-1}\left(\frac{1}{2}\right) =$

3. $\sin^{-1}\left(\frac{\sqrt{3}}{2}\right) =$

4. $\cos^{-1}\left(-\frac{\sqrt{2}}{2}\right) =$

5. $\cos^{-1}(-1) =$

6. $\arccos(0) =$

7. $\arcsin\left(-\frac{\sqrt{3}}{2}\right) =$

8. $\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right) =$

9. $\sin^{-1}(2) =$

10. $\arccos\left(-\frac{1}{2}\right) =$

11. $\sin^{-1}(1) =$

12. $\sin^{-1}\left(-\frac{1}{2}\right) =$

13. $\cos^{-1}(0) =$

14. $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right) =$

15. $\sin^{-1}(-1) =$

16. $\tan\left(\cos^{-1}(-1)\right) =$

17. $\cos^{-1}\left(\sin\frac{7\pi}{6}\right) =$

18. $\cos^{-1}\left(\cot\frac{\pi}{2}\right) =$

19. $\cos\left(\sin^{-1}\left(\frac{1}{2}\right)\right) =$

20. $\sin\left(\cos^{-1}\left(-\frac{\sqrt{2}}{2}\right)\right) =$

21. $\sin^{-1}(\tan\pi) =$

22. $\tan\left(\sin^{-1}\left(\frac{\sqrt{3}}{2}\right)\right) =$

23. $\sec\left(\cos^{-1}(0)\right) =$

24. $\cos^{-1}\left(\sin^{-1}(0)\right) =$

25. $\sin^{-1}\left(\cos\left(\frac{11\pi}{6}\right)\right) =$

26. $\cos^{-1}\left(\sin\left(\frac{7\pi}{4}\right)\right) =$

27. $\cos^{-1}\left(\sin\frac{11\pi}{6}\right) =$

28. $\sin\left(\sin^{-1}\left(-\frac{8}{5}\right)\right) =$

29. $\cos\left(\cos^{-1}\left(-\frac{3}{5}\right)\right) =$

30. $\cos^{-1}\left(\cos\left(\frac{11\pi}{9}\right)\right) =$