

Math 124 Homework §6.2

Find all of the solutions on the interval $[0, 2\pi)$. Give exact values in radians.

1. $\sin x = 1/2$

2. $\cos x = -1/2$

3. $\sin x = -\sqrt{2}/2$

4. $\cos x = -\sqrt{3}/2$

5. $\sin x = -\sqrt{2}/2$

6. $\sin x = \sqrt{3}/2$

7. $\cos x = -\sqrt{2}/2$

8. $\tan x = 1$

9. $\tan x = -1$

10. $\tan x = \sqrt{3}$

11. $\cot x = -\sqrt{3}$

12. $\sec x = 2$

13. $\csc x = -\sqrt{2}$

Find all real solutions. Give exact values.

14. $\sin x = 1/2$

15. $\cos x = -1/2$

16. $\cos x = -\sqrt{3}/2$

17. $\cot x = 1$

18. $\cos x = -\sqrt{2}/2$

Use a calculator to find all solutions on the interval $[0, 2\pi)$ in radians.
Round your answer to the thousandth place.

19. $\sin x = -0.3$

20. $\cos x = -0.75$

21. $\tan x = 2.3$

22. $\sin x = -0.82$