

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. $\sin x = -0.82$