

Solving Trig Equations WS 1

Name _____

Solve the following equations over $[0, 2\pi)$

1. $2\sin x + 1 = 0$

2. $\sqrt{3}\sec x = 2$

3. $\tan x - \sqrt{3} = 0$

4. $\sec^2 x - 2 = 0$

5. $2\cos x - 1 = 0$

6. $2\sin^2 x = 1$

7. $\tan x(\tan x - 1) = 0$

8. $\csc^2 x - 2 = 0$

9. $\sin x(\sin x + 1) = 0$

10. $\sqrt{3}\tan x + 1 = 0$

11. $\sec x + 2 = 0$

12. $\cos x + 1 = 0$

13. $\sec x \csc x - 2 \csc x = 0$

14. $2\sin^2 x + 3\sin x + 1 = 0$

15. $2\cos x \sin x + \cos x = 0$

16. $2\sin^2 x - \sin x - 1 = 0$

17. $2\cot^2 x \sin x = \cot^2 x$

18. $\tan^2 x - 2\tan x + 1 = 0$