

PreAP PreCalculus
WS – Solving Trig Equations, Pt 1
Spring 2019

Name _____

Date _____ Per _____

Solve the following equations. $x \in [0, 2\pi)$

1. $4\cos x = -2\sqrt{3}$

2. $\sec x - 2 = 0$

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

4. $2\sin x - 1 = 0$

5. $\cos x = -0.5912$

6. $\sin x = 0.8641$

7. $\tan x = -4.291$

8. $\sec x = -2.817$

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

10. $\sin x \sec x - 2\sin x = 0$

11. $2\sin^2 x + \sin x - 1 = 0$

12. $2\sin^2 x + \cos x - 1 = 0$

13. $3\cos^2 x + \cos x - 2 = 0$

14. $6\sin^2 x + \sin x - 2 = 0$

1. _____

2. _____

3. _____

4. _____

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6. _____

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10. _____

11. _____

12. _____

13. _____

14. _____