

11-2 Solving Trig Equations 2016-17

Name: _____

Solve each equation using the domain of $(0^\circ, 360^\circ]$. Do your work on a separate piece of paper.

Put answers in the blank to the left of the questions.

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

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

_____ 3. $2 \cos x = \sqrt{3}$

_____ 4. $2 \cos x = 1$

_____ 5. $\tan x = 0$

_____ 6. $(2 \cos x - 1)(\cos x + 1) = 0$

_____ 7. $(2 \sin x - 1)(2 \sin x + \sqrt{3}) = 0$

_____ 8. $\sin x \bullet \cos x - \sin x = 0$

_____ 9. $\cos x \bullet \cos x - \cos x = 0$

_____ 10. $(2 \cos x + 1)(\cos x + 1) = 0$

_____ 11. $(2 \sin x + 1)(\sin x + 1) = 0$

_____ 12. $(\cos x - 1)(\cos x + 1) = 0$

_____ 13. $(\sin x - 1)(\cos x - 1) = 0$

_____ 14. $(\sin x + 1)(\sin x - 1)(\cos x - 1) = 0$

_____ 15. $(6 \cos x - 3)(4 \sin x - 2) = 0$

_____ 16. $\sin x \bullet \cos x = 0$

_____ 17. $2 \cos^2 x - \cos x - 1 = 0$

_____ 18. $4 \sin^2 x - 1 = 0$

_____ 19. $2 \sin^2 x + 15 \sin x - 8 = 0$

_____ 20. $\tan^2 x - 1 = 0$

