

Precalculus
Trig Equations IV (40)

Name _____ Period _____

Solve for x over the interval $0 < x < 2\pi$.

1. $(\sin x + 1)(6\sin x - 1) = 0$

5. $2 = 5\sin^2 x - 2\cos x$

2. $(5\cos x + 4)(3\sin x - 1) = 0$

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

3. $6\sin^2 x - 5\sin x + 1 = 0$

7. $3\cos x - 4\sin x = 0$

4. $8\cos^2 x - 2\cos x = 3$

8. $\tan^2 x + 4\tan x = 3$

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9. $2 \sin^2 x = \cos^2 x$

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

10. $\csc x = 2 \sin x$

14. $\sin x + 2 = 0$

11. $(4 \cos^2 x - 3)(\sin^2 x + 2) = 0$

12. $\cot x - \sqrt{3} = 0$