

Dynamics of Trigonometry - Ruckdeschel

Any calculator; One page handwritten

Notes allowed

Name: _____

Date: _____

Block: _____

Review: Solving Trigonometric Equations

Show all work for credit!!!

Solve on the interval $0^\circ \leq x < 360^\circ$.

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

2. $3 \cot^2 x - 1 = 0$

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

4. $2 \cos^2 x + \cos x - 1 = 0$

Solve on the interval $0 \leq x < 2\pi$.

5. $2 \cos x = 1 + 4 \cos x$

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

7. $\frac{1}{2} \csc x - 1 = 0$

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

Solve for ALL the angles in radians for the following equations.

9. $4\cos^2 x - 3 = 0$

10. $\sin x = \sqrt{3} - \sin x$

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

12. $\tan x = -1$