

Practice – 2

Once you feel confident with solving second degree trigonometric equations, complete problems 1 to 5. Check your answers by going to the Solutions tab in Moodle.

Instructions: Answer each of the following practice questions on a separate piece of paper. Step by step solutions are provided under the Solutions tab. You will learn the material more thoroughly if you complete the questions before checking the answers.

- 1. Solve $\cos^2 x \cos x = 0$ on $[0, 2\pi]$.
- 2. Solve $\cos \theta 2 \sin \theta \cos \theta = 0$ on $[-2\pi, 2\pi]$.
- 3. Solve $2\sin^2\theta 6 = \sin\theta$ on $[-2\pi, 4\pi]$.
- 4. Solve $5\sin^2(2\theta) + 2\sin(2\theta) 7 = 0$ on $[-2\pi, 2\pi]$.
- 5. Solve $2 \sin \theta = 3 + 2 \csc \theta$ on $[-\pi, 2\pi]$.

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