

10.3 Solving Trig Equations Day 1

EQ: How do I solve trig equations?

How do I solve equations
involving trig expressions?

$$1. \cos 4x \cos x - \sin 4x \sin x = 0 \quad x \in [0, 2\pi)$$

$$2. 2 \sin x \cos x = 1 \quad x \in \{\text{real numbers}\}$$

How do I know if I am
finding a general solution?

$$3. 4 \cos^2 \theta = 3 \quad \theta \in \{\text{real number degrees}\}$$

$$4. \sin x - 2 = 5 \sin x \quad x \in [-\pi, 0]$$

Summary