

Introduction to Trigonometric Equations Worksheet.

Solve the following equations for the given restriction on t . (If no restriction is given, find all solutions)

(1) Solve: $\cos(t) = -\frac{1}{2}$ _____

(2) Solve: $\sin(t) = \frac{\sqrt{2}}{2}$ for $0 \leq t < 2\pi$ _____

(3) Solve: $\tan(t) = -1$ _____

(4) Solve: $\sin(t) = -\frac{1}{2}$ for $-\frac{\pi}{2} \leq t < \frac{\pi}{2}$ _____

(5) Solve: $\sec(t) = -1$ $0 \leq t < 2\pi$ _____

(6) Solve: $\csc(t) = -2$ for $0 \leq t < 2\pi$ _____

(7) Solve: $\cot(t) = \sqrt{3}$ _____

(8) Solve: $\tan(t) = 0$ $0 \leq t < 2\pi$ _____