

Trigonometric equations - Worksheet

NAME:

DATE:

1. Find all the solutions of the equation

(a) $\cot x = -3.5$

(b) $-2 \sec x = 4$

2. Approximate all the solutions in $[0, 2\pi)$ of $\cos x = 0.958$

3. Find the **exact** solution(s) for $2 \sin x - 1 = 0$:

- (a) In the interval $[0, 2\pi)$.
- (b) In the interval $(-\infty, +\infty)$

4. Find all θ with $0^\circ \leq \theta < 360^\circ$ that are solutions to $4 \sin^2 \theta + 4 \sin \theta - 3 = 0$

5. Solve the equation graphically $5 \sin 3x + 6 \cos 3x = 1$