

Section 2: Trigonometric equations

Section test

1. Solve $\cos \theta = 0.3$ for $0^\circ \leq \theta \leq 360^\circ$.
2. Solve $\tan x = 0.5$ for $0^\circ \leq \theta \leq 360^\circ$.
3. Solve $2\sin 2\theta + 1 = 0$ for $0^\circ \leq \theta \leq 360^\circ$.
4. Solve $3\tan \frac{1}{2}\theta - 2 = 0$ for $-180^\circ \leq \theta \leq 180^\circ$.
5. Solve $2\cos \theta - \sin \theta = 0$ for $0^\circ \leq \theta \leq 360^\circ$.
6. Solve $(2\cos \theta + 1)(\cos \theta - 2) = 0$ for $0^\circ \leq \theta \leq 360^\circ$.
7. Solve $2\sin^2 \theta - \sin \theta - 1 = 0$ for $-180^\circ \leq \theta \leq 180^\circ$.
8. Solve $2\sin \theta \cos \theta - \sin \theta = 0$ for $0^\circ \leq \theta \leq 360^\circ$.
9. Solve $\tan^2 \theta - 1 = 0$ for $-180^\circ \leq \theta \leq 180^\circ$.
10. Solve $\cos^2 \theta + \cos \theta = \sin^2 \theta$ for $0^\circ \leq \theta \leq 360^\circ$.