

Solving trigonometric equations

Solve $\sin \theta = \frac{1}{2}$ in the interval $0 \leq \theta \leq 360^\circ$.

Solve $5 \tan \theta = 10$ in the interval $-180^\circ \leq \theta < 180^\circ$

Solve $\sin \theta = -\frac{1}{2}$ in the interval $0 \leq \theta \leq 360^\circ$.

Solve $\sin \theta = \sqrt{3} \cos \theta$ in the interval $0 \leq \theta \leq 360^\circ$.

Solve $2 \cos \theta = \sqrt{3}$ in the interval $0 \leq \theta \leq 360^\circ$.

Solve $\sqrt{3} \sin \theta = \cos \theta$ in the interval $-180^\circ \leq \theta \leq 180^\circ$.