

1.5 Solving Trig Equations

Solving Trig Equations is often a matter of knowing your special angles, identities, and the graphs.

Ex 1 Solve for θ , $3\tan\theta = 3$, $\theta \in \mathbb{R}$

Ex 2 Solve for x , $2\cos x - \sqrt{3} = 0$, $x \in \mathbb{R}$

Ex 3 Solve for x , $2\cos x \sin x = \cos x$, $0 \leq x \leq 2\pi$

Ex 4 $2\sin^2 x + 5\sin x + 2 = 0$, $0 \leq x \leq 2\pi$

Ex 5 $\sin 2x = \sqrt{3}/2$, $0 \leq x \leq 2\pi$

p.29#2-9 do 4, 18