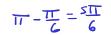
EXAM: TRIGONOMETRIC EQUATIONS

→ Trigonometric Equations - Level 1



$$\blacksquare$$
 Solve: $\sin(x) = \frac{1}{2}$

Solve:
$$\sin(x) = \frac{1}{2}$$

$$\mathbf{C}$$
 Solve: $\sin(x) = -1$

$$\bigstar$$
 Solve: $\cos(x) = 0$

***** Solve:
$$\cos(x) = \frac{\sqrt{3}}{2}$$

$$lacksquare$$
 Solve $\tan(x) = 1$

$$ightharpoonup
ightharpoonup \cot(x) = -1$$

Trigonometric Equations - Level 2

ightarrow ightarrow Solve: $\sin(2x)=\sqrt{3}/2$

$$>$$
 Solve: $2\sin^2(x) - 1 = 0$

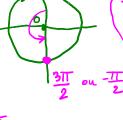
$$\Rightarrow$$
 Solve: $\cos(2x) = -1$

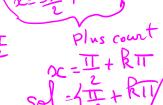
$$\clubsuit$$
 Solve: $\cos(x) = -\frac{1}{2}$

• Solve:
$$\tan(x - \frac{\pi}{4}) = \sqrt{3}$$

• Solve:
$$\tan^2(x) = 3$$







Trigonometric Equations - Level 3 (Isolation + Shift/Multiple)

C Solve:
$$2\sin(2x) + 1 = 0$$

$$\clubsuit$$
 Solve: $3-4\sin\left(x-\frac{\pi}{3}\right)=1$

***** Solve:
$$\cos(3x) - 1 = 0$$

$$\clubsuit$$
 Solve: $2\cos\left(x+\frac{\pi}{4}\right)-\sqrt{3}=0$

• Solve:
$$3\tan(2x) + \sqrt{3} = 0$$

• Solve:
$$\sqrt{3} - tan\left(x - \frac{\pi}{6}\right) = 0$$

