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← Please encode your student number, and write your first and last names below.

First name and last name:

Question 1 ♣ Solve the equation $\sin x = 0$ ($0 \leq x \leq 2\pi$).

☒0 ☐ $\frac{\pi}{6}$ ☐ $\frac{\pi}{4}$ ☐ $\frac{\pi}{3}$ ☐ $\frac{\pi}{2}$ ☐ $\frac{2}{3}\pi$ ☐ $\frac{3}{4}\pi$
☐ $\frac{5}{6}\pi$ ☒ π ☐ $\frac{7}{6}\pi$ ☐ $\frac{5}{4}\pi$ ☐ $\frac{4}{3}\pi$ ☐ $\frac{3}{2}\pi$ ☐ $\frac{5}{3}\pi$
☐ $\frac{7}{4}\pi$ ☐ $\frac{11}{6}\pi$ ☒ 2π ☐None of these answers are correct.

Question 2 ♣ Solve the equation $\sin x = -\frac{1}{2}$ ($0 \leq x \leq 2\pi$).

☐0 ☐ $\frac{\pi}{6}$ ☐ $\frac{\pi}{4}$ ☐ $\frac{\pi}{3}$ ☐ $\frac{\pi}{2}$ ☐ $\frac{2}{3}\pi$ ☐ $\frac{3}{4}\pi$
☐ $\frac{5}{6}\pi$ ☐ π ☒ $\frac{7}{6}\pi$ ☐ $\frac{5}{4}\pi$ ☐ $\frac{4}{3}\pi$ ☐ $\frac{3}{2}\pi$ ☐ $\frac{5}{3}\pi$
☐ $\frac{7}{4}\pi$ ☒ $\frac{11}{6}\pi$ ☐ 2π ☐None of these answers are correct.

Question 3 ♣ Solve the equation $\cos x = 1$ ($0 \leq x \leq 2\pi$).

☒0 ☐ $\frac{\pi}{6}$ ☐ $\frac{\pi}{4}$ ☐ $\frac{\pi}{3}$ ☐ $\frac{\pi}{2}$ ☐ $\frac{2}{3}\pi$ ☐ $\frac{3}{4}\pi$
☐ $\frac{5}{6}\pi$ ☐ π ☐ $\frac{7}{6}\pi$ ☐ $\frac{5}{4}\pi$ ☐ $\frac{4}{3}\pi$ ☐ $\frac{3}{2}\pi$ ☐ $\frac{5}{3}\pi$
☐ $\frac{7}{4}\pi$ ☐ $\frac{11}{6}\pi$ ☒ 2π ☐None of these answers are correct.

Question 4 ♣ Solve the equation $\cos x = -\frac{1}{2}$ ($0 \leq x \leq 2\pi$).

☐0 ☐ $\frac{\pi}{6}$ ☐ $\frac{\pi}{4}$ ☐ $\frac{\pi}{3}$ ☐ $\frac{\pi}{2}$ ☒ $\frac{2}{3}\pi$ ☐ $\frac{3}{4}\pi$
☐ $\frac{5}{6}\pi$ ☐ π ☐ $\frac{7}{6}\pi$ ☐ $\frac{5}{4}\pi$ ☒ $\frac{4}{3}\pi$ ☐ $\frac{3}{2}\pi$ ☐ $\frac{5}{3}\pi$
☐ $\frac{7}{4}\pi$ ☐ $\frac{11}{6}\pi$ ☐ 2π ☐None of these answers are correct.

Question 5 ♣ Solve the equation $\tan x = -\sqrt{3}$, ($0 \leq x \leq 2\pi$).

☐0 ☐ $\frac{\pi}{6}$ ☐ $\frac{\pi}{4}$ ☐ $\frac{\pi}{3}$ ☐ $\frac{\pi}{2}$ ☒ $\frac{2}{3}\pi$ ☐ $\frac{3}{4}\pi$
☐ $\frac{5}{6}\pi$ ☐ π ☐ $\frac{7}{6}\pi$ ☐ $\frac{5}{4}\pi$ ☐ $\frac{4}{3}\pi$ ☐ $\frac{3}{2}\pi$ ☒ $\frac{5}{3}\pi$
☐ $\frac{7}{4}\pi$ ☐ $\frac{11}{6}\pi$ ☐ 2π ☐None of these answers are correct.