Calculus ex02 **10 Apr. 2019**

○0 ○0 ○0 ○0 ○0 ○0 ○0 ○0
○1 ○1 ○1 ○1 ○1 ○1 ○1 ○1
○2 ○2 ○2 ○2 ○2 ○2 ○2 ○2
○3 ○3 ○3 ○3 ○3 ○3 ○3 ○3
○4 ○4 ○4 ○4 ○4 ○4 ○4 ○4
○5 ○5 ○5 ○5 ○5 ○5 ○5 ○5
○6 ○6 ○6 ○6 ○6 ○6 ○6 ○6
○7 ○7 ○7 ○7 ○7 ○7 ○7 ○7
○8 ○8 ○8 ○8 ○8 ○8 ○8 ○8
○9 ○9 ○9 ○9 ○9 ○9 ○9 ○9

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

First name and last name: ....

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

● 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 $\sin x = -\frac{1}{2}\,(0 \le x \le 2\pi)$.

○ 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 $\cos x = 1\,(0 \le x \le 2\pi)$.

● 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 $\cos x = -\frac{1}{2}\,(0 \le x \le 2\pi)$.

○ 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 $\tan x = -\sqrt{3}, (0 \le x \le 2\pi)$.

○ 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.*