10 Apr. 2019

 $Calculus\ ex 0 2$

 $\bigcirc 0 \bigcirc 0$

Question [sinp01] \clubsuit Solve the equation $\sin x = 0 \ (0 \le x \le 2\pi)$.									
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									
Question [sinp02] \clubsuit Solve the equation $\sin x = \frac{1}{2} (0 \le x \le 2\pi)$.									
Question [sinp03] \clubsuit Solve the equation $\sin x = \frac{1}{\sqrt{2}} (0 \le x \le 2\pi)$.									
$ \bigcirc 0 \qquad \bigcirc \frac{\pi}{6} \qquad \bullet \qquad \frac{\pi}{4} \qquad \bigcirc \frac{\pi}{3} \qquad \bigcirc \frac{\pi}{2} \qquad \bigcirc \frac{2}{3}\pi \qquad \bullet \qquad \frac{3}{4}\pi $ $ \bigcirc \frac{5}{6}\pi \qquad \bigcirc \qquad \pi \qquad \bigcirc \frac{7}{6}\pi \qquad \bigcirc \qquad \frac{5}{4}\pi \qquad \bigcirc \qquad \frac{4}{3}\pi \qquad \bigcirc \qquad \frac{3}{2}\pi \qquad \bigcirc \qquad \frac{5}{3}\pi $ $ \bigcirc \qquad \frac{7}{4}\pi \qquad \bigcirc \qquad \frac{11}{6}\pi \qquad \bigcirc \qquad 2\pi \qquad \bigcirc \qquad None \ of \ these \ answers \ are \ correct. $									
Question [sinp04] \clubsuit Solve the equation $\sin x = \frac{\sqrt{3}}{2} (0 \le x \le 2\pi)$.									
$ \bigcirc 0 \qquad \bigcirc \frac{\pi}{6} \qquad \bigcirc \frac{\pi}{4} \qquad \bigoplus \frac{\pi}{3} \qquad \bigcirc \frac{\pi}{2} \qquad \bigoplus \frac{2}{3}\pi \qquad \bigcirc \frac{3}{4}\pi $ $\bigcirc \frac{5}{6}\pi \qquad \bigcirc \pi \qquad \bigcirc \frac{7}{6}\pi \qquad \bigcirc \frac{5}{4}\pi \qquad \bigcirc \frac{4}{3}\pi \qquad \bigcirc \frac{3}{2}\pi \qquad \bigcirc \frac{5}{3}\pi $ $\bigcirc \frac{7}{4}\pi \qquad \bigcirc \frac{11}{6}\pi \qquad \bigcirc 2\pi \qquad \bigcirc \text{None of these answers are correct.} $									
Question [sinp05] \clubsuit Solve the equations $x = 1 \ (0 \le x \le 2\pi)$.									
$ \bigcirc 0 \qquad \bigcirc \frac{\pi}{6} \qquad \bigcirc \frac{\pi}{4} \qquad \bigcirc \frac{\pi}{3} \qquad \bullet \frac{\pi}{2} \qquad \bigcirc \frac{2}{3}\pi \qquad \bigcirc \frac{3}{4}\pi $ $\bigcirc \frac{5}{6}\pi \qquad \bigcirc \pi \qquad \bigcirc \frac{7}{6}\pi \qquad \bigcirc \frac{5}{4}\pi \qquad \bigcirc \frac{4}{3}\pi \qquad \bigcirc \frac{3}{2}\pi \qquad \bigcirc \frac{5}{3}\pi $ $\bigcirc \frac{7}{4}\pi \qquad \bigcirc \frac{11}{6}\pi \qquad \bigcirc 2\pi \qquad \bigcirc \text{None of these answers are correct.} $									
Question [sinm02] \clubsuit Solve the equation $\sin x = -\frac{1}{2} (0 \le x \le 2\pi)$.									
$ \bigcirc 0 \qquad \bigcirc \frac{\pi}{6} \qquad \bigcirc \frac{\pi}{4} \qquad \bigcirc \frac{\pi}{3} \qquad \bigcirc \frac{\pi}{2} \qquad \bigcirc \frac{2}{3}\pi \qquad \bigcirc \frac{3}{4}\pi $ $\bigcirc \frac{5}{6}\pi \qquad \bigcirc \pi \qquad \bullet \frac{7}{6}\pi \qquad \bigcirc \frac{5}{4}\pi \qquad \bigcirc \frac{4}{3}\pi \qquad \bigcirc \frac{3}{2}\pi \qquad \bigcirc \frac{5}{3}\pi $ $\bigcirc \frac{7}{4}\pi \qquad \bullet \frac{11}{6}\pi \qquad \bigcirc 2\pi \qquad \bigcirc \text{None of these answers are correct.} $									

Question [sinm03] \clubsuit Solve the equation $\sin x = -\frac{1}{\sqrt{2}} (0 \le x \le 2\pi)$.										
$ \bigcirc 0 \qquad \bigcirc \\ \bigcirc \frac{5}{6}\pi \qquad \bigcirc \\ \bullet \qquad \frac{7}{4}\pi $	$ \begin{array}{ccc} \frac{\pi}{6} & \bigcirc \\ \pi & \bigcirc \\ \bigcirc & \frac{11}{6}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{4} & \bigcirc \\ \frac{7}{6}\pi & \bullet \\ \bigcirc & 2\pi \end{array} $	$ \frac{\frac{\pi}{3}}{\frac{5}{4}\pi} $	$ \begin{array}{ccc} \frac{\pi}{2} \\ \frac{4}{3}\pi \\ \text{one of these} \end{array} $	$ \begin{array}{ccc} & \frac{2}{3}\pi \\ & \frac{3}{2}\pi \\ & answers are a \end{array} $	$ \bigcirc \frac{3}{4}\pi $ $ \bigcirc \frac{5}{3}\pi $ correct.				
Question [sinm04] \clubsuit Solve the equation $\sin x = -\frac{\sqrt{3}}{2} (0 \le x \le 2\pi)$.										
$ \begin{array}{ccc} \bigcirc & 0 & \bigcirc \\ \bigcirc & \frac{5}{6}\pi & \bigcirc \\ \bigcirc & \frac{7}{4}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{6} & \bigcirc \\ \pi & \bigcirc \\ \bigcirc & \frac{11}{6}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{4} & \bigcirc \\ \frac{7}{6}\pi & \bigcirc \\ \bigcirc & 2\pi \end{array} $	$\frac{\pi}{3}$ $\frac{5}{4}\pi$ Nc	$ \begin{array}{c} \frac{\pi}{2} \\ \bullet \frac{4}{3}\pi \end{array} $ one of these	$ \begin{array}{ccc} & \frac{2}{3}\pi \\ & \frac{3}{2}\pi \\ & answers are a \end{array} $	$ \bigcirc \frac{3}{4}\pi $ $ \bullet \frac{5}{3}\pi $ correct.				
Question [sinm05] \clubsuit Solve the equation $\sin x = -1 \ (0 \le x \le 2\pi)$.										
$ \bigcirc 0 \qquad \bigcirc \\ \bigcirc \frac{5}{6}\pi \qquad \bigcirc \\ \bigcirc \frac{7}{4}\pi $	$ \begin{array}{ccc} \frac{\pi}{6} & \bigcirc \\ \pi & \bigcirc \\ \bigcirc & \frac{11}{6}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{4} & \bigcirc \\ \frac{7}{6}\pi & \bigcirc \\ \bigcirc & 2\pi \end{array} $	$\frac{\pi}{3}$ $\frac{5}{4}\pi$ Nc	$ \begin{array}{c} \frac{\pi}{2} \\ \frac{4}{3}\pi \\ \text{one of these} \end{array} $	$ \bigcirc \frac{\frac{2}{3}\pi}{\mathbf{\bullet}} \frac{3}{2}\pi $ answers are a	$ \bigcirc \frac{3}{4}\pi $ $ \bigcirc \frac{5}{3}\pi $ correct.				
Question [cosp01] \clubsuit Solve the equation $\cos x = 1 \ (0 \le x \le 2\pi)$.										
$ \begin{array}{ccc} \bullet & 0 & \bigcirc \\ \bigcirc & \frac{5}{6}\pi & \bigcirc \\ \bigcirc & \frac{7}{4}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{6} & & \bigcirc \\ \pi & & \bigcirc \\ \bigcirc & \frac{11}{6}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{4} & \bigcirc \\ \frac{7}{6}\pi & \bigcirc \\ 2\pi \end{array} $	$ \frac{\frac{\pi}{3}}{\frac{5}{4}\pi} $	$ \begin{array}{ccc} \frac{\pi}{2} \\ \frac{4}{3}\pi \\ \text{one of these} \end{array} $	$ \begin{array}{ccc} & \frac{2}{3}\pi \\ & \frac{3}{2}\pi \\ & answers are a \end{array} $	$ \bigcirc \frac{3}{4}\pi $ $ \bigcirc \frac{5}{3}\pi $ correct.				
Question [cosp02] \clubsuit Solve the equation $\cos x = \frac{\sqrt{3}}{2} (0 \le x \le 2\pi)$.										
$ \bigcirc 0 \\ \bigcirc \frac{5}{6}\pi \\ \bigcirc \frac{7}{4}\pi $	$ \begin{array}{ccc} \frac{\pi}{6} & & \bigcirc \\ \pi & & \bigcirc \\ \bullet & \frac{11}{6}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{4} & \bigcirc \\ \frac{7}{6}\pi & \bigcirc \\ \bigcirc & 2\pi \end{array} $	$\begin{array}{c} \frac{\pi}{3} \\ \frac{5}{4}\pi \\ \bigcirc Nc$	$ \begin{array}{ccc} \frac{\pi}{2} \\ \frac{4}{3}\pi \end{array} $ one of these	$ \bigcirc \frac{2}{3}\pi $ $ \bigcirc \frac{3}{2}\pi $ answers are of	$ \bigcirc \frac{3}{4}\pi $ $ \bigcirc \frac{5}{3}\pi $ correct.				
Question [cosp03] \clubsuit Solve the equation $\cos x = \frac{1}{\sqrt{2}} (0 \le x \le 2\pi)$.										
$ \bigcirc 0 \qquad \bigcirc \\ \bigcirc \frac{5}{6}\pi \qquad \bigcirc \\ \bullet \qquad \frac{7}{4}\pi $	$ \begin{array}{ccc} \frac{\pi}{6} & & \bullet \\ \pi & & \bigcirc \\ & \frac{11}{6}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{4} & \bigcirc \\ \frac{7}{6}\pi & \bigcirc \\ \bigcirc & 2\pi \end{array} $	$ \frac{\frac{\pi}{3}}{\frac{5}{4}\pi} $	$ \begin{array}{ccc} \frac{\pi}{2} \\ \frac{4}{3}\pi \\ \text{one of these} \end{array} $	$ \begin{array}{ccc} & \frac{2}{3}\pi \\ & \frac{3}{2}\pi \\ & answers are a \end{array} $	$ \bigcirc \frac{3}{4}\pi $ $ \bigcirc \frac{5}{3}\pi $ correct.				
Question [cosp04] \clubsuit Solve the equation $\cos x = \frac{1}{2} (0 \le x \le 2\pi)$.										
$ \begin{array}{ccc} \bigcirc & 0 & \bigcirc \\ \bigcirc & \frac{5}{6}\pi & \bigcirc \\ \bigcirc & \frac{7}{4}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{6} & \bigcirc \\ \pi & \bigcirc \\ \bigcirc & \frac{11}{6}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{4} & \bullet \\ \frac{7}{6}\pi & \bigcirc \\ 0 & 2\pi \end{array} $	$\begin{array}{c} \frac{\pi}{3} \\ \frac{5}{4}\pi \\ \bigcirc Nc \end{array}$	$ \begin{array}{ccc} \frac{\pi}{2} \\ \frac{4}{3}\pi \\ \text{one of these} \end{array} $	$ \begin{array}{ccc} & \frac{2}{3}\pi \\ & \frac{3}{2}\pi \\ & answers are a \end{array} $	$ \bigcirc \frac{3}{4}\pi $ $ \bullet \frac{5}{3}\pi $ correct.				
Question [cosp05] \clubsuit Solve the equation $\cos x = 0 \ (0 \le x \le 2\pi)$.										
$ \bigcirc 0 \qquad \bigcirc \\ \bigcirc \frac{5}{6}\pi \qquad \bigcirc \\ \bigcirc \frac{7}{4}\pi $	$ \begin{array}{ccc} \frac{\pi}{6} & \bigcirc \\ \pi & \bigcirc \\ \bigcirc & \frac{11}{6}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{4} & \bigcirc \\ \frac{7}{6}\pi & \bigcirc \\ \bigcirc & 2\pi \end{array} $	$\begin{array}{c} \frac{\pi}{3} \\ \frac{5}{4}\pi \\ \bigcirc Nc \end{array}$	$ \begin{array}{ccc} & \frac{\pi}{2} \\ & \frac{4}{3}\pi \\ & \text{one of these} \end{array} $	$ \bigcirc \frac{\frac{2}{3}\pi}{\frac{3}{2}\pi} $ answers are a	$\bigcap_{\frac{3}{4}\pi} \pi$ $\bigcap_{\frac{5}{3}\pi} \pi$ correct.				
Question [cosm01] Solve the equation $\cos x = -\frac{1}{2} (0 \le x \le 2\pi)$.										
$ \bigcirc 0 \qquad \bigcirc \\ \bigcirc \frac{5}{6}\pi \qquad \bigcirc \\ \bigcirc \frac{7}{4}\pi $	$ \begin{array}{ccc} \frac{\pi}{6} & \bigcirc \\ \pi & \bigcirc \\ \bigcirc & \frac{11}{6}\pi \end{array} $	$ \begin{array}{ccc} \frac{\pi}{4} & \bigcirc \\ \frac{7}{6}\pi & \bigcirc \\ \bigcirc & 2\pi \end{array} $	$ \frac{\frac{\pi}{3}}{\frac{5}{4}\pi} $		$ \begin{array}{cccc} & \frac{2}{3}\pi \\ & \frac{3}{2}\pi \\ & answers are a \end{array} $	$\bigcap_{\frac{3}{4}\pi} \pi$ $\bigcap_{\frac{5}{3}\pi}$ correct.				

Question [cosm02] Solve the equation $\cos x = -\frac{1}{\sqrt{2}} (0 \le x \le 2\pi)$.										
$ \bigcirc 0 \\ \bigcirc \frac{5}{6}\pi \\ \bigcirc \frac{7}{4}\pi $	$ \begin{array}{ccc} & \frac{\pi}{6} \\ & \pi \\ & \bigcirc \end{array} $	$\bigcap_{\frac{11}{6}\pi}$	$\begin{array}{c} \frac{\pi}{4} \\ \frac{7}{6}\pi \\ \bigcirc 2 \end{array}$	\bigcirc	$\frac{\frac{\pi}{3}}{\frac{5}{4}\pi}$	$ \bigcap_{\frac{4}{3}\pi} \frac{4}{3}\pi $ None of these	$ \begin{array}{c} \frac{2}{3}\pi \\ \frac{3}{2}\pi \\ answers are d \end{array} $	$ \begin{array}{c} $		
Question [cosm03] \clubsuit Solve the equation $\cos x = -\frac{\sqrt{3}}{2} (0 \le x \le 2\pi)$.										
$ \begin{array}{c} \bigcirc 0 \\ \bullet \frac{5}{6}\pi \\ \bigcirc \frac{7}{4}\pi \end{array} $	$ \begin{array}{ccc} & \frac{\pi}{6} \\ & \pi \\ & \bigcirc \end{array} $	$\bigoplus_{\frac{11}{6}\pi}$	$ \frac{\frac{\pi}{4}}{\frac{7}{6}\pi} $	\bigcirc	$\frac{\frac{\pi}{3}}{\frac{5}{4}}\pi$	$\bigcap_{\frac{4}{3}\pi} \frac{\frac{4}{3}\pi}{None \ of \ these}$	$ \bigcirc \frac{2}{3}\pi $ $ \bigcirc \frac{3}{2}\pi $ answers are a	$ \bigcirc \frac{3}{4}\pi $ $ \bigcirc \frac{5}{3}\pi $ correct.		
Question [tan01] \clubsuit Solve the equation $\tan x = 0, (0 \le x \le 2\pi)$.										
$ \bigcirc 0 \\ \bigcirc \frac{\frac{5}{6}\pi}{\pi} \\ \bigcirc \frac{7}{4}\pi $	$ \begin{array}{ccc} & \frac{\pi}{6} \\ & \pi \\ & \bigcirc \end{array} $	$\bigcap_{\frac{11}{6}\pi}$	$\frac{\frac{\pi}{4}}{6}\pi$	\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc	$\frac{\frac{\pi}{3}}{\frac{5}{4}}\pi$	$ \bigcap_{\frac{\pi}{2}} \frac{4}{3}\pi $ None of these	$ \begin{array}{c} \frac{2}{3}\pi \\ \frac{3}{2}\pi \\ answers are d \end{array} $	$ \begin{array}{ccc} & \frac{3}{4}\pi \\ & \frac{5}{3}\pi \end{array} $ correct.		
Question [tan02] \clubsuit Solve the equation $\tan x = \frac{1}{\sqrt{3}}, (0 \le x \le 2\pi).$										
$ \bigcirc 0 \\ \bigcirc \frac{\frac{5}{6}\pi}{\pi} \\ \bigcirc \frac{\frac{7}{4}\pi}{\pi} $	$ \begin{array}{ccc} & \frac{\pi}{6} \\ & \pi \\ & \bigcirc \end{array} $	$\bigoplus_{\frac{11}{6}\pi}$	$\begin{array}{c} \frac{\pi}{4} \\ \frac{7}{6}\pi \end{array} \qquad 2$	\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc	$\frac{\frac{\pi}{3}}{\frac{5}{4}\pi}$	$ \bigcirc \frac{\pi}{2} \\ \bigcirc \frac{4}{3}\pi $ None of these	$ \begin{array}{c} \frac{2}{3}\pi \\ \frac{3}{2}\pi \\ answers are d \end{array} $	$ \bigcirc \frac{3}{4}\pi $ $ \bigcirc \frac{5}{3}\pi $ correct.		
Question [tan03	3] 🐥 S	solve the e	equation	$1 \tan x$	= 1, ($(0 \le x \le 2\pi).$				
$ \bigcirc 0 \\ \bigcirc \frac{5}{6}\pi \\ \bigcirc \frac{7}{4}\pi $	$ \begin{array}{ccc} & \frac{\pi}{6} \\ & \pi \\ & \bigcirc \end{array} $	$\bigcup_{\frac{11}{6}\pi}$	$\frac{\frac{\pi}{4}}{6\pi}$ $\bigcirc 2$	$\mathbb{C}\pi$	$\frac{\frac{\pi}{3}}{\frac{5}{4}\pi}$	$ \bigcap_{\frac{\pi}{2}} \frac{\frac{4}{3}\pi}{None of these} $	$ \bigcirc \frac{2}{3}\pi $ $ \bigcirc \frac{3}{2}\pi $ answers are a	$ \bigcirc \frac{3}{4}\pi $ $ \bigcirc \frac{5}{3}\pi $ correct.		
Question [tan04	4] 🐥 S	Solve the e	equation	$1 \tan x$	$c = \sqrt{3}$	$\bar{\mathbf{S}}, (0 \le x \le 2\pi)$				
$ \bigcirc 0 \\ \bigcirc \frac{5}{6}\pi \\ \bigcirc \frac{7}{4}\pi $	$ \begin{array}{ccc} & \frac{\pi}{6} \\ & \pi \\ & \bigcirc \end{array} $	$\bigcap_{\frac{11}{6}\pi}$	$ \frac{\frac{\pi}{4}}{6}\pi $ $ 0 2 $	\bigcirc 2π	$\frac{\frac{\pi}{3}}{\frac{5}{4}}\pi$	$ \bigcirc \frac{\pi}{2} $ $ \bullet \frac{4}{3}\pi $ None of these	$ \bigcirc \frac{2}{3}\pi $ $ \bigcirc \frac{3}{2}\pi $ answers are of	$ \bigcirc \frac{3}{4}\pi $ $ \bigcirc \frac{5}{3}\pi $ correct.		
Question [tan08	5] 🐥 S	Solve the e	equation	$1 \tan x$:=-v	$\sqrt{3}$, $(0 \le x \le 27)$	τ).			
$ \bigcirc 0 \\ \bigcirc \frac{5}{6}\pi \\ \bigcirc \frac{7}{4}\pi $	$ \begin{array}{ccc} & \frac{\pi}{6} \\ & \pi \\ & \bigcirc \end{array} $	$\bigcap_{\frac{11}{6}\pi}$	$ \frac{\frac{\pi}{4}}{6}\pi $ $ 0 2 $	\bigcirc	$\frac{\frac{\pi}{3}}{\frac{5}{4}}\pi$	$ \bigcap_{\frac{4}{3}\pi} \frac{\frac{4}{3}\pi}{None of these} $	$ \begin{array}{c} $	$ \bigcirc \frac{3}{4}\pi $ $ \bullet \frac{5}{3}\pi $ correct.		
Question [tan06] \clubsuit Solve the equation $\tan x = -1, (0 \le x \le 2\pi).$										
$ \bigcirc 0 \\ \bigcirc \frac{5}{6}\pi \\ \bullet \frac{7}{4}\pi $	$ \begin{array}{ccc} & \frac{\pi}{6} \\ & \pi \\ & \bigcirc \end{array} $	$\bigcap_{\frac{11}{6}\pi}$	$\frac{\frac{\pi}{4}}{\frac{7}{6}\pi}$	\bigcirc	$\frac{\frac{\pi}{3}}{\frac{5}{4}}\pi$	$ \bigcirc \frac{\pi}{2} $ $ \bigcirc \frac{4}{3}\pi $ None of these	$ \bigcirc \frac{2}{3}\pi $ $ \bigcirc \frac{3}{2}\pi $ answers are a	$ \begin{array}{ccc} & \frac{3}{4}\pi \\ & \frac{5}{3}\pi \end{array} $ correct.		
Question [tan07] \clubsuit Solve the equation $\tan x = -\frac{1}{\sqrt{3}}, (0 \le x \le 2\pi).$										
$ \begin{array}{c} \bigcirc 0 \\ \bullet \frac{5}{6}\pi \\ \bigcirc \frac{7}{4}\pi \end{array} $	$ \begin{array}{ccc} & \frac{\pi}{6} \\ & \pi \\ & \bullet \end{array} $	$\bigcap_{\frac{11}{6}\pi}$	$ \frac{\frac{\pi}{4}}{\frac{7}{6}\pi} $	\bigcirc	$\frac{\frac{\pi}{3}}{\frac{5}{4}}\pi$	$ \bigcap_{\frac{\pi}{2}} \frac{\frac{\pi}{2}}{\frac{4}{3}\pi} $ None of these	$ \bigcirc \frac{2}{3}\pi $ $ \bigcirc \frac{3}{2}\pi $ answers are a	$ \bigcirc \frac{3}{4}\pi $ $ \bigcirc \frac{5}{3}\pi $ correct.		