

Quiz 10

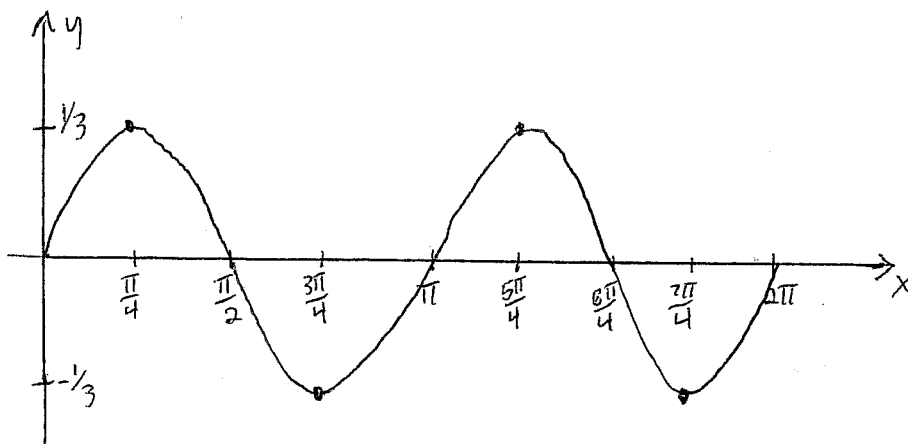
This quiz is graded out of 10 marks. No books, notes, graphing calculators or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. pg.192#3a (5 marks)

Sketch the graph of $y = \frac{1}{3} \sin(2x)$ for $0 \leq x \leq 2\pi$.

Amplitude = $|\frac{1}{3}| = \frac{1}{3}$

Period = $\frac{2\pi}{b} = \frac{2\pi}{2} = \pi$



Question 2. pg.186#5b (5 marks)

Find the exact value of $\cos \frac{5\pi}{6}$.

Lets convert to degrees $\frac{5\pi}{6} \left(\frac{180}{\pi} \right) = 150^\circ$

note: that cos is negative in the II quadrant

$$\begin{aligned} \cos \frac{5\pi}{6} &= -\frac{a}{h} \\ &= -\frac{\sqrt{3}}{2} \end{aligned}$$

