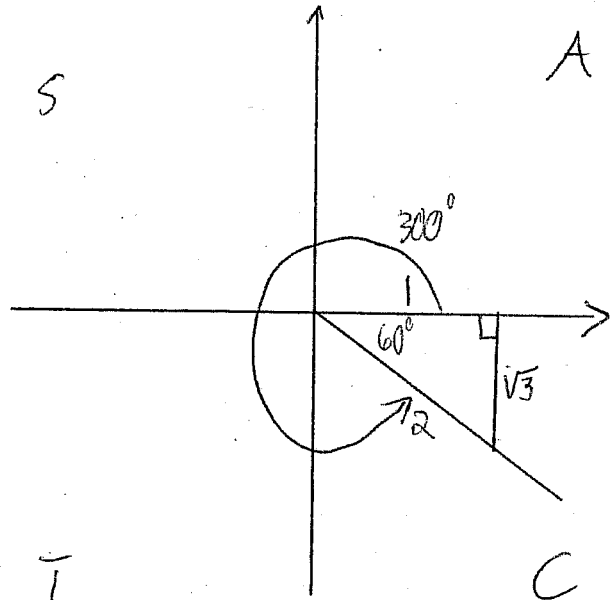


Quiz 10

This quiz is graded out of 10 marks. No books, calculators, notes 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.186#5e (5 marks) Find the exact value of:

$$\begin{aligned} \sec\left(\frac{5\pi}{3}\right) &= \sec\left[\left(\frac{5\pi}{3}\right)\left(\frac{60^\circ}{\pi}\right)\right] \\ &= \sec 300^\circ \\ &= \frac{\text{hyp}}{\text{adj}} \\ &= +\frac{2}{1} \\ &= 2 \end{aligned}$$



Question 2. pg.192#1e (5 marks) Find the amplitude and period and sketch one period:

$$y = 2 \cos \frac{1}{3}x$$

amplitude = $|a| = |2| = 2$
 period = $\frac{2\pi}{b} = \frac{2\pi}{\frac{1}{3}} = 6\pi$

