

Quiz 11

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. 208 #1i (4 marks) Find the exact value of:

$$\arctan(\sqrt{3})$$

$$\theta = \arctan(\sqrt{3})$$

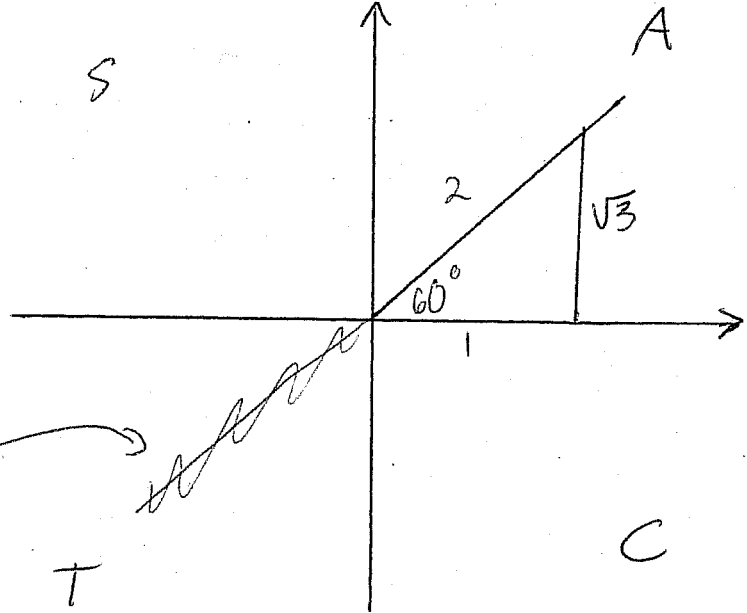
$$\tan \theta = \tan \arctan(\sqrt{3})$$

$$\tan \theta = \frac{\sqrt{3}}{1} = \frac{a}{a}$$

$$\theta = 60^\circ$$

$$\theta = \frac{\pi}{3}$$

not in restriction of T
tan



Question 2. pg. 192 #3h (6 marks) Sketch the graph of $y = -1.5 \cos(2x)$ on the domain $-\frac{\pi}{2} \leq x \leq \frac{\pi}{2}$.

$$\text{amplitude} = |-1.5| = 1.5$$

$$\text{period} = \frac{2\pi}{2} = \pi$$

