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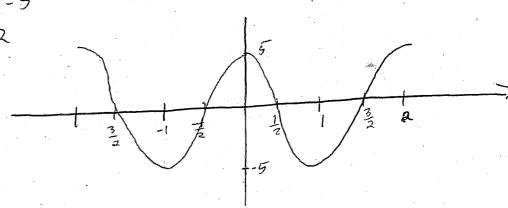
Ouiz 10

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 192#3d (4 marks) Sketch the graph of the function $y = 5\cos(\pi\theta)$ on the interval $-2 \le x \le 2$.

amplitude =
$$151=5$$

period = $2\pi = 2$



Question 2. pg.198#10 (3 marks) Prove(Verify) the following identity:

$$\sin x(\csc x - \sin x) = \cos^2 x$$

$$\frac{\sin x}{\sin x} - \sin x = \cos^{2} x$$

$$\frac{\sin x}{\sin x} - \sin^{2} x = \cos^{2} x$$

$$1 - \sin^{2} x = \cos^{2} x$$

$$\cos^2 x = \cos^2 x$$

Question 3. pg.203#3c (3 marks) Solve for θ giving the exact solution, $0^{\circ} \le \theta < 360^{\circ}$.

$$\sqrt{3}\sec\theta - 2 = 0$$

$$Sec\theta = \frac{2}{\sqrt{3}} = \frac{hyp}{odj}$$

