مدرسة القديسة مريم الكاثوليكية الثانوية ـ دبي

ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

YEAR 11 – MATHEMATICS (Week 4) 2021-2022

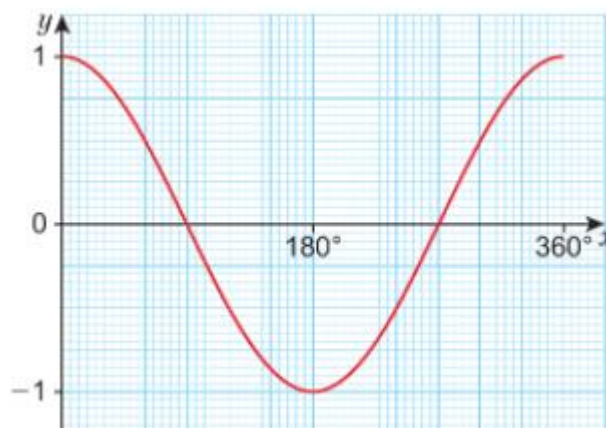|	
Subject	Mathematics
Class/ Section	Year 11
Week	19th September to 23rd September
Work send to students by	Google classroom
Total number of lessons per week	5
Unit 13	More Trigonometry
Key Vocabulary	Reference angle, asymptote
Lessons 1,2,3,4,5 –Live Zoom lesson along with face to face instruction for students present on a particular day **Work will be assigned in Google classroom which will be matched to the students ability.**	**Specific Learning objectives** • To solve trigonometric equations by sketching graphs and by using reference angle • To do the problems from the worksheet involving Trigonometric equations and Trigonometric values of any angle. • Recognise and sketch Quadratic and Cubic graphs **Specific Intended Learning Outcomes** **By the end of the lesson students will be able to** • **To solve trigonometric equations by sketching graphs and by using reference angle** • **To do the problems from the worksheet involving Trigonometric equations and Trigonometric values of any angle.**

	• **Recognise and sketch Quadratic and Cubic graphs**
Tasks/Activities	
	The teacher will introduce the concepts using PPT. Complete the questions assigned from the text book and the worksheet . Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.
Assessment Criteria/ Essential questions	1. Here is the graph of $y = \cos x$ for $0° \leqslant x \leqslant 360°$. Use the graph to estimate a solution to $\cos x = -0.6$. 2. **a** Sketch the graph of $y = \tan x$ in the interval $0°$ to $720°$. **b** Given that $\tan 30° = \dfrac{1}{\sqrt{3}}$ solve the equation $3 \tan x = \sqrt{3}$ in the interval $0°$ to $720°$. Assessment objectives expected by the board with respect to the above questions are listed below. AO1: Use and apply standard techniques AO2: Reason, interpret and communicate mathematically AO3: Solve problems within mathematics and in other contexts.
Resources	**Text Book : Edexcel GCSE (9- 1)Mathematics Higher Student Book** **PPT and worksheet**