

YEAR 13 – MATHEMATICS (Week 8)

Subject	Mathematics
Class/ Section	Year 13 – Batch A, B and C
Week	18th October to 22nd October 2020
Work send to students by	Group email / Google classroom / Zoom
Total number of lessons per week	3
Units	Pure Mathematics – Year 2 Chapter 5 – Radians Chapter 6 – Trigonometric Functions
Lessons 1 –Live Zoom lesson	5.5 – Small angle approximations 6.1 – Secant, Cosecant and Cotangent <u>Learning objective</u> – To use approximate trigonometric values when θ is small. To understand the definitions of secant, cosecant and cotangent and their relationship to cosine, sine and tangent. <u>Intended Learning Outcomes</u> --Students will be able to use radians to find approximations for the values of $\sin \theta$, $\cos \theta$ and $\tan \theta$. When θ is small and measured in radians: $\sin \theta \approx \theta$, $\tan \theta \approx \theta$ and $\cos \theta \approx 1 - \frac{\theta^2}{2}$ -- Students will be able to understand Secant (sec), Cosecant (cosec) and cotangent (cot), the reciprocal functions of cosine, sine and tangent. $\cot x$ can also be written as $\cos x / \sin x$. Tasks To complete the questions assigned from the Textbook (pdf) in their notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning. Resources 1 Power point presentation 2 Pure Mathematics Year 2 3 https://www.physicsandmathstutor.com/ 4 https://www.drfrstmaths.com/ 5 https://www.examsolutions.net/

