Our FIFTH ASSESSMENT will happen on Tues/Wed on Feb 12/13. We have reviewed and a number of KEY syllabus TOPICS in our first weeks of SEM 2 in Math SL1. These are: (1) TOPIC 1 –Sequences & Series and Laws of Exponents and Logarithms and Binomial Expansions, (2) TOPIC 3 - Trigonometry – solving triangles, sinusoidal functions, tangent function, trig equations and trig identities (3) TOPIC 4 - Vectors. (4) In TOPIC 2 on Functions, you MUST know your parent functions and how to transform them!! (5) In TOPIC 6 on Calculus, you should know how to draw a tangent line on the TI-84 and how to perform a difference quotient calculation. The problem sets you should have worked through are from PS29 – PS37.

1) **TOPIC 1: Algebra**
   a) Sigma Notation: Oxford Exercise 6F, p171, Q2,3; Cirrito, Exercise 8.2.2, p260, Q4
   b) Laws of Exponents: Oxford, Exercise 4C, p107, Q1,2; Cirrito, Exercise 7.1.1, p200, Q1def,7acd
   c) Laws of Logarithms: Oxford, Exercise 4M, p124, Q2,3; Exercise 4O, p126, Q3,5
   d) Binomial Expansion: Oxford, Exercise 6N, p187, Q1,2,3,4,6,7,8; Cirrito, Ex 4.1.2, p102, Q2abde
   e) Solve log equations: Cirrito, Ex 7.4, p228, Q5cfij
   f) Sequences and Series: Review Questions, p189, CI, Q1-5 & Review Questions, p189, CA, Q2-6

2) **TOPIC 3: Trigonometry**
   a) Ex 13A, p451, Q1-4
   b) Ex 13B, p453, Q1,2
   c) Ex 13C, p455, Q1,2
   d) Ex 13D, p456, Q2
   e) Ex 13H, p465, Q2,5
   f) Ex 13I, p474, Q6-12

3) **TOPIC 2: Functions**
   a) Translations: Cirrito 6.1, p174, Q1,9,10
   b) Dilations: Cirrito 6.2, p181, Q3,4,9
   c) Reflections: Cirrito 6.3, p187, Q1,5

4) **TOPIC 4: Vectors**
   a) Vector Equation of a line: Cirrito 12.7.1, p450, Q2,3,4,9
   b) Vector Equation of a line: Oxford 12J, p432, Q1,2,3,4,5,6