

Review Suggestions for Assessment 13 for SL2 Math

We have reviewed and a number of KEY syllabus TOPICS in our first weeks of SEM 4 in Math SL2. These are: (1) TOPIC 1 - Algebra, (2) TOPIC 3 - Trigonometry and (3) TOPIC 4 - Vectors. Additionally, we have continued to work with (4) analyzing a function using calculus and using either the first or second derivative to verify types of extrema/IP, (5) our continued work with Probability Distributions, most recently the Normal Distribution and finally (7) revisiting the ideas of Vectors. The problem sets you should have worked through are from PS79 - PS86.

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

2. Use calculus to **analyze functions**: Oxford 7V, p242, any from Q1-6 and Oxford 14D, p503, any from Q1,2,5

3. **Normal Distribution**, Oxford Chap 15.3, exercise 15J, p543, any from Q1-5; exercise 15L, p548, any from Q3-5; exercise 15M, p550, any from Q5-8.

4. **Probability Distributions**, Oxford Chap 15 Review Questions starting on p551; do some of the CI Qs from Q1-7 and do some of the CA Qs from Q1-6

5. **TOPIC 4:** Vectors, Oxford Chap 12 Review Questions starting on p438; do some of the CI Qs from Q1-7 and do some of the CA Qs from Q1-5 and also Oxford, Chap 12B, p414, Q3,5,6; Oxford, Chap 12C, p416, Q2,6; Oxford, Chap 12D, p417, Q3,4; Oxford, Chap 12E, p418, Q4,5

6. **TOPIC 3:** Trigonometry
 - a. Oxford, Exercise 13B, p453, Q1,3
 - b. Oxford, Exercise 13E, p460, Q6,7
 - c. Oxford, Exercise 13I, p474, Q3,6,7,8