

Grade 12 tasks:

Grade 12 learners must complete 7 formal assessment tasks.

Term 1: an assignment, a project or investigation and a test = **3 SBA tasks**

Term 2: a test and the mid-year examination = **2 SBA tasks**

Term 3: a test and a mid-year examination = **2 SBA tasks**

These exemplars will not deal with the two examinations as we are still waiting for the national examination guidelines. The test for each term may be compiled from the topical assignments.

Term 1

Topical Assignments

Topic 1: Sequences and series

Question 1

- 1.1 Consider the sequence: $6; 10; 16; 24; 34; \dots$
- 1.1.1 If the sequence behaves consistently, determine the next two terms of the sequence. (2)
- 1.1.2 Calculate a formula for the n^{th} term of the sequence. (5)
- 1.1.3 Use your formula to calculate n if the n^{th} term in the sequence is 1264. (3)
- 1.2 Consider the following sequence: $6; 18; 54; 162; \dots$
- 1.2.1 If the formula for the general term of the sequence is $T_n = ar^{n-1}$, give the value of a and r . (2)
- 1.2.2 Which term of the sequence is equal to 1458? (4)
- Given the geometric series: $5; (3)^{\frac{1}{2}} + 5; (3)^{\frac{1}{2}} + 5; (3)^{\frac{1}{2}} + \dots$
- 1.3.1 Explain why the series converges. (2)
- 1.3.2 Calculate the sum to infinity of the series. (5)
- 1.3.3 Calculate the sum of the first 9 terms of the series, correct to **TWO** decimal places. (4)
- 1.3.4 Use your answers to QUESTION 1.3.2 and QUESTION 1.3.3 to determine $\sum_{n=0}^{\infty} 5.(3)^{\frac{1}{2}n}$ (correct to **TWO** decimal places) (2)

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Marco Casella



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