



1 – Algebra

Student name: _____ Score: _____

1. [Minimum mark: 3]

Consider the expansion of $(x + 4)^7$

(a) Write down the number of terms in this expansion. [1]

(b) Find the term containing x^4 . [4]

2. [Minimum mark: 7]

Consider the expansion of $x^2(2x^3 + 3)^{10}$. The constant term is 40320.

Find k .

3. [Minimum mark: 3]

Consider the expansion of $(3x + 4)^7$.

(a) Write down the number of terms in this expansion. [1]

(b) Find the term in x^4 . [4]

4. [Minimum mark: 6]

In an arithmetic sequence $u_1 = 7$, $u_{10} = 5.75$.

(a) Write down the value of the common difference. [1]

(b) Find the first term. [3]

(c) Find the sum of the first 60 terms of the sequence. [2]

5. [Minimum mark: 3]

The third term in the expansion of $(2x + \frac{1}{x})^k$ is $375x^4$. Find the possible values of k .

6. [Minimum mark: 7]

Alfred walks to work each morning. During the first minute he walks 60 metres. In each subsequent minute he walks 95% of the distance walked during the previous minute. The distance between his house and work is 500 metres. Alfred leaves his house at 7:10 am and has to be at work by 7:30 am.

Determine if Alfred is going to be at work on time.

7. [Minimum mark: 6]

(a) Find the term in x^7 in the expansion of $(x + 3)^9$. [4]

(b) Hence, find the term in x^7 in the expansion of $7x(x + 3)^9$. [2]

8. [Minimum mark: 6]

In a geometric sequence, the fourth term is 9 times the second term. The sum of the first terms is 4020. Find the 5th term of this sequence.

9. [Minimum mark: 8]

Note: One decade is ten (10) years.

A population of a mammal, P_t , can be modelled by the equation $P_t = P_0 e^{kt}$, where P_0 is initial population, and t is measured in decades. After one decade, it is estimated that $\frac{P_1}{P_0} = 0.95$.

(a) (i) Find the value of k .

(ii) Interpret the meaning of the value of k . [2]

(b) Find the least number of whole years for which $\frac{P_t}{P_0} < 0.2$. [5]

10. [Minimum mark: 6]

The first three terms of an arithmetic sequence are $u_1 = 0.21$, $u_2 = 1.42$, $u_3 = 2.63$

(a) Find the common difference. [2]

(b) Find the 30th term of the sequence. [2]

(c) Find the sum of the first 30 terms. [2]

11. [Minimum mark: 6]

Consider the expansion of $(2x^3 + \frac{1}{x^{1/2}})^{10}$

(a) Write down the number of terms of this expansion. [1]

(b) Find the coefficient of x^{11} . [5]



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M Lipman



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