

Question 7.

Calculate the following sums:

part a. $\sum_{j=1}^8 (j-3)$

part b. $\sum_{k=1}^4 (k^3 - k^2)$

part c. $\sum_{j=3}^9 j$

Question 8

A sequence is given as 1, 3, 9, 27, ... What are the next three terms in the sequence?

Question 9.

what is the sum of $1+4+9+16+\dots+841+900$?

(Note: The ... continues the sequence.)

Question 2.

A Sequence is identified by the formula $a_n = 4n$. What is the fourth term, a_4 in the sequence?

Question 3.

A Sequence is identified by the formula $a_n = (n+1)^n$. What is the fourth term, a_4 , in the sequence?

Question 4.

Sequence is identified by the formula $a_n = a_{n-1} + 3$ with $a_0 = 4$. What is the value of the term a_3 in the sequence?

Question 5.

Sequence is identified by the formula $a_n = a_{n-1}$ with $a_0 = 4$. What is the value of the term a_5 in the sequence?

Question 6.

Which of the following gives the correct recurrence relation for the amount of money in a bank account after n months with an interest rate of 2% per month and an initial deposit of \$3000?