Digital assignment

$Roll\ number:\ ee 23btech 11220$

1 Problem 11.9.1.9

Find a_9 in the sequence $a_n = (-1)^{n-1} \cdot n^3$

Given,

$$a_n = (-1)^{n-1} n^3 (1)$$

Substitute n=9 in equation 1 , to obtain the term a_9 So,

$$a_9 = (-1)^8 9^3$$

So,

$$a_9 = 729$$

Hence, the 9^{th} term of this sequence is 729.

