

# Slide the Eraser

Sequences and Series



# Question 1

Find  $a_n$  for the following sequence

16, 9, 2, -5, ....

# Question 2

Find  $a_n$  for the following sequence

12, 18, 27,  $81/2$ , ....

# Question 3

State the recursive definition for the following?

5, 9, 13, 17, 21, ...

# Question 4

Find the missing terms of the geometric sequence

$$\frac{1}{2}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 4$$

# Question 5

Find  $S_{33}$  of the following series

$$12 + 6 + 0 + -6, \dots$$

# Question 6

Find  $S_{12}$  of the following series

$$-2 + 6 + -18 + 54, \dots$$

# Question 7

Evaluate the following. You must show the terms and sum.

$$\sum_{n=3}^7 n^2 - 4$$



# Question 8

Find the following sum.

$$\sum_{n=1}^7 \frac{1}{5^n}$$