

JINDAL SCHOOL

05/12/2024 CLASS-XI CLASS TEST-1

1. A G.P is given $1/2, 1, 2, 4, \dots$. If a constant k is multiplied in each term of the G.P., then find the 10th term of the G.P.
2. Find the following sums
 - a) $1 + 1/2 + 1/4 + 1/8 + \dots$ upto ∞
 - b) $(-4) + 8 + (-16) + 32 + \dots$ Upto 9 terms
3. Show that the Arithmetic mean is always greater than or equal to the Geometric mean of two numbers.
4. Arithmetic mean of two numbers is 10 and geometric mean is 8. Find the numbers.
5. If the 2nd , 3rd and 6th terms of an A.P are in G.P. Find the common ratio of G.P if the first term of the A.P is 6.