XI-TULIP CHAPTER#6 DATE:6-5-22

1.In a G.P the first term is 7, the last term is 448 and the sum is 889. Find the common ratio and the number of terms.

2.A besieged fortress is hold by 5700 men who have provision for 66 days. If the garrison loses 20 men each day, for how many days will be provisions last?

3.The sum of four terms in A.P is 4, the sum of the products of the first and the last term and the two middle terms is -38, find the numbers.

4.The sum of the first n terms of two A.P’s are as 3n + 1 : 13 – 7n. Find ratio of their second terms.

5.The 12th term of an H.P is and the 19th term is , find the 10th term of the H.P.

6.The ratio of the sum of the first four terms of a G.P to the sum of the first eight terms of the same G.P is81 : 79; find the common ratio of the G.P.

7. Which term of the geometric sequence 18, 12, 8 …… is ?

8. Prove, that a, b, c are in A.P, G.P or H.P according as = or or .

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