

Question 1: Find the 5th term of the G.P. 3, 6, 12, ...

Question 2: Find the sum of the infinite G.P. 2, 2, 1, ...

Question 3: How many terms of the series $-9 - 6 - 3 + 0 + \dots$ amount to 66

Question 4: If $A = \{1, 3, 5\}$ then find two proper subsets of A.

Answer:

$\{1,3\}$ and $\{3,5\}$

Question 5: Let $A = \{1,5,9\}$ and $B = \{6,7\}$ then find Cartesian product from A to B and from B to A. Are both equal or not. Also Justify your result.

Question 6: Let f and g be the functions defined by $f(x) = 2x+3$ & $g(x) = 3x+2$ then find

1. Composition of f and g.
2. Composition of g and f.