- 8 (a) The first, second and last terms in an arithmetic progression are 56, 53 and -22 respectively. Find the sum of all the terms in the progression. [4]
 - (b) The first, second and third terms of a geometric progression are 2k + 6, 2k and k + 2 respectively, where k is a positive constant.
 - (i) Find the value of k. [3]
 - (ii) Find the sum to infinity of the progression. [2]