10 **(a)** The sum of the first 4 terms of an arithmetic progression is 38 and the sum of the next 4 terms is 86. Find the first term and the common difference. [5]

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(b) The third term of a geometric progression is 12 and the sixth term is -96. Find the sum of the first 10 terms of this progression. [6]

Question 11 is printed on the next page.