

- 9** **(a)** In an arithmetic progression, the sum, S_n , of the first n terms is given by $S_n = 2n^2 + 8n$. Find the first term and the common difference of the progression. [3]
- (b)** The first 2 terms of a geometric progression are 64 and 48 respectively. The first 3 terms of the geometric progression are also the 1st term, the 9th term and the n th term respectively of an arithmetic progression. Find the value of n . [5]