

- 6** The 1st, 2nd and 3rd terms of a geometric progression are the 1st, 9th and 21st terms respectively of an arithmetic progression. The 1st term of each progression is 8 and the common ratio of the geometric progression is r , where $r \neq 1$. Find
- (i) the value of r , [4]
 - (ii) the 4th term of each progression. [3]