

- 6**    **(a)** Find the sum of all the integers between 100 and 400 that are divisible by 7. [4]
- (b)** The first three terms in a geometric progression are 144,  $x$  and 64 respectively, where  $x$  is positive. Find
- (i)** the value of  $x$ ,
  - (ii)** the sum to infinity of the progression.