3 **(a)** An arithmetic progression has first term 3 and common difference 1.5.

(i) Find the sum of the first 20 terms. **[2]**

(ii) The nth term of the arithmetic progression is 72.

Find the value of n. **[2]**

(b) The second and third terms of a geometric progression are 10 and –2.5.

(i) Find the common ratio. **[1]**

(ii) Find the first term. **[1]**

(iii) Find the sum of the first six terms. **[2]**