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Arithmetic Progression

| Past Paper Question | C1 Edexcel June 2014 Q8b

In the year 2000 a shop sold 150 computers. Each year the shop sold 10 more computers than the year before, so that the shop sold 160 computers in 2001, 170 computers in 2002, and so on forming an arithmetic sequence.

(b) Calculate the total number of computers the shop sold from 2000 to 2013 inclusive. (3)

$$\text{Total n}^\circ \text{ sold} = 150 + 160 + 170 + \dots + (14^{\text{th}} \text{ year } 2013)$$

$$= S_{14}$$

$$= \frac{14}{2} [2(150) + (14-1)10]$$

$$= 3010$$

$$a, a+d, a+2d, a+3d, a+4d, \dots$$

where the n^{th} term, $u_n = a + (n-1)d$

$$S_n = \frac{n}{2} [2a + (n-1)d]$$



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