Marked example 2

Paper 1 style · No calculator

2 4 marks SL 1.2 ●●○ Typical

Consider the series $\sum_{k=1}^{20}(3k+2)$.

(a) Write down the first term and the common difference. **[2]**

(b) Find the sum of the series. **[2]**

MARKSCHEME (a)

$u_1 = 5$ **A1**

$d = 3$ **A1**

Total 2 marks

MARKSCHEME (b)

$\frac{20}{2}(2\times 5 + 19\times 3)$ or $\frac{20}{2}(5+62)$ **(M1)**

$= 670$ **A1**

Total 2 marks

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