

Name in English

Example 5 Find the First Three Terms

Find the first three terms of the following arithmetic series.

1. $a_1 = 8, a_n = 100, S_n = 1296$

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2. $n = 18, a_n = 112, S_n = 1098$

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Standardized Test Example 6 Use Sigma Notation

3. Find $\sum_{k=1}^{12} (3k + 9)$

a) 45

b) 78

c) 342

d) 410

4. Find $\sum_{k=4}^{13} (4k + 1)$

a) 300

b) 350

c) -300

d) -350

5. Find $\sum_{k=5}^{16} (2k + 6)$

a) 324

b) 342

c) -324

d) *none of the above*

6. Find $\sum_{k=0}^{12} (-3k + 2)$

a) 208

b) 200

c) -208

d) *none of the above*