## **QUESTION**

If the fourth term of an arithmetic sequence is \$200\$ and the eighth term is \$500\$, what is the sixth term?





Question 1: Find the 16th term of arithmetic sequence with common difference 2?

**Question 2:** 

. . .

What is the formula for the nth term of an arithmetic sequence?





- The main difference between sequence and series is that, by definition, an arithmetic sequence is simply the set of numbers created by adding the common difference each time.
- Arithmetic series, on the other head, is the sum of n terms of a sequence. For example, you might denote the sum of the first 12 terms with S12 = a1 + a2 + ... + a12.",
- It is represented by the formula a\_n = a\_1 + (n-1)d, where a\_1 is the first term of the sequence, a\_n is the nth term of the sequence, and d is the common difference, which is obtained by subtracting the previous term from the current term. How do you know if a sequence is arithmetic or geometric?"