

Q: Check whether -150 is a term of the AP: 11, 8, 5, 2,

Solution: Let n th term of given AP be a_n

Given:

First term = 11 and Common difference = -3

$$a_n = 11 + (n - 1)(-3)$$

$$a_n = 14 - 3n$$

Now, we need to check if -150 is a term of the given AP.

$$-150 = 14 - 3n$$

$$3n = 164$$

$$n = 164/3$$

Here $n \notin N$

Thus -150 is not a term of the given AP.