



Problem of the Week

Problem D

Follow the Sequence

The first four terms of an arithmetic sequence are x , $2x$, y , and $x - y - 6$, for some integers x and y . What is the value of the 50th term in this sequence?

NOTE: An *arithmetic sequence* is a sequence in which each term after the first is obtained from the previous term by adding a constant. For example, 3, 5, 7, 9 are the first four terms of an arithmetic sequence.

