Sequences

Question

Which type of function is defined by this recursive sequence?

$$a_1 = 3$$

 $a_{n+1} = a_n + (2n - 1)$

- (a) Linear
- (b) Exponential
- (c) Quadratic
- (d) None of these



Answer: (c) The expression (2n-1) represents a constant second finite difference. No work is necessary, but students may create a table.

