

NAME: _____

P.I. A2.A.33: Specify terms of a sequence, given its recursive definition

1. What is the seventh term of this sequence? $a_1 = 3$, $a_n = a_{n-1} + 6$

[A] 9 [B] 27 [C] 60 [D] 39 [E] 37

2. Compare the quantity in Column A with the quantity in Column B.

Column A

Column B

10

a_3 , when $a_1 = 3$, $a_n = 2a_{n-1} - 5$

- [A] The quantity in Column A is greater. [B] The quantity in Column B is greater.
[C] The two quantities are equal.
[D] The relationship cannot be determined on the basis of the information supplied.

3. Which of the following could *not* be a term in this sequence? $a_n = 2^n - 1$

[A] 1 [B] 31 [C] 127 [D] 63 [E] 512

[1] D

[2] A

[3] E