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*Triangular-Like Numbers That Are Triangular,*

Fibonacci Quart. **57** (2019), no. 4, 356–362.

**Abstract**

A balancing-like sequence is a recurrence sequence satisfying the recurrence relation  $x_{n+1} = Ax_n - x_{n-1}$  with initial terms  $x_0 = 0$  and  $x_1 = 1$  and  $A > 2$  is a positive integer. For any given  $A$ , the  $n$ th triangular-like number is defined as  $\tau_n(A) = \frac{x_n \cdot x_{n+1}}{A}$ . All the triangular-like numbers corresponding to the balancing-like sequence with  $A = 4$  are triangular numbers. However, no other balancing-like sequence enjoys this property.