

Quiz 14, February 18, 2016

Find a formula for the n^{th} term of the sequence:

$$a_1 = \frac{1}{9}, a_2 = \frac{2}{12}, a_3 = \frac{2^2}{15}, a_4 = \frac{2^3}{18}, a_5 = \frac{2^4}{21}, \dots$$

Answer: $a_n = \frac{2^{n-1}}{3(n+2)}.$