

Number:

Textbook Section:

Title:

Recursively-defined sequences:

1. Find the first five terms of the recursively-defined sequence:

$$a_n = \frac{1}{1 + a_{n-1}}, a_1 = 1$$

2. Find the first five terms of the recursively-defined sequence:

$$a_n = a_{n-1} + a_{n-2}, a_1 = 1, a_2 = 1$$

3. Find a recursion formula for the sequence:

$$4, -1, \frac{1}{4}, -\frac{1}{16}, \dots$$