

INTRODUCTION TO SEQUENCES WORKSHEET

Solutions

1) Find the first 6 terms of the following sequences:

a. $a_n = n + 4, n \in \mathbb{N}$

$$a_1 = 1 + 4 = 5$$

$$a_2 = 2 + 4 = 6$$

$$a_3 = 3 + 4 = 7$$

$$a_4 = 4 + 4 = 8$$

$$a_5 = 5 + 4 = 9$$

$$a_6 = 6 + 4 = 10$$

b. $a_n = n^2 + 1, n \in \mathbb{N}$

$$a_1 = 1^2 + 1 = 2$$

$$a_2 = 2^2 + 1 = 5$$

$$a_3 = 3^2 + 1 = 10$$

$$a_4 = 4^2 + 1 = 17$$

$$a_5 = 5^2 + 1 = 26$$

$$a_6 = 6^2 + 1 = 37$$

$$a_7 = 7^2 + 1 = 50$$

Introduction to Sequences

1) Find the first 6 terms of the following sequences:

a. $a_n = n + 4, n \in \mathbb{N}$

b. $a_n = n^2 + 1, n \in \mathbb{N}$

c. $a_n = 4^n, n \in \mathbb{N}$

d.

DETAILED
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b. $a_n = n^2 + n$. Find:
c. the position of the term 50

Practice B 9 Introduction To Sequences

Lei Huang



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