Sequences and Series Homework – Arithmetic and Geometric Sequences[*]

Kenny M. Felder

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Abstract

An updated version of the Sequences and Series module.

Exercise 1
On January 1, you have 100 songs on your iPod. There after, you download three songs a day.

 a. Fill in the following table.

Date: January...	Number of Songs
1	100
2	103
3	106
5	
10	
d	

Table 1

 b. Test your formula at the end (for day d) by making sure it correctly predicts that on Day
1, you have 100 songs. If it does not, fix it.

Exercise 2
You begin an experiment with 10 amoebas in a petrie dish. Each minute, each amoeba splits, so
the total number of amoebas doubles. Fill in the following table.

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Minutes elapsed	Number of amoebas, or amoebae, or whatever they are
0	10
1	20
2	
5	
m	

Table 2