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Chapter 10: Geometric Sequences and Series - Application (IC)

Name: Kely

IC) Date: _____ Period:

You propose to your parents that they begin your weekly allowance at 1 penny for the first week of the year. They must triple your allowance every week for the remainder of the year.

1. Write a recursive formula to compute your weekly allowance each week.

2. Write an explicit formula to compute your weekly allowance each week.

3. Compute your allowance during the:

a. 6th week of the year.

b. 12th week of the year.

$$a_{12} = .01(3^{12-1}) = $1,771.47$$

c. 21st week of the year.

$$a_{21} = .01(3^{21-1}) = (34,867,844.0)$$

4. Do you think your parents would agree to your proposal? Explain why or why not.

No; By 21st week, they would need to give me more # than they make all year.