

5. Here are the first three figures of a pattern.



Figure 1



Figure 2



Figure 3

Arithmetic

$$d = +3$$

- a. List the numbers of line segments in Figures 1-7.

| Figure   | 1 | 2 | 3  | 4  | 5  | 6  | 7  |
|----------|---|---|----|----|----|----|----|
| Segments | 4 | 7 | 10 | 13 | 16 | 19 | 22 |

- b. Write a recursive formula that generates the sequence you found in part a.

$$U_n = U_{n-1} + 3 \quad U_1 = 4 \quad n \geq 2$$

- c. Write an explicit formula that generates the sequence you found in part a.

$$U_n = 3n + 1 \quad \text{or} \quad U_n = 3(n-1) + 4$$

- d. How many line segments are in Figure 20?

$$U_{20} = 3(20) + 1 = 61$$

- e. Which figure has 145 line segments?

$$145 = 3n + 1 \quad 144 = 3n \quad \frac{144}{3} = n \quad n = 48 \quad U_{48}$$

6. Consider the sequence 0.05, 0.15, 0.45, 1.35, 4.05, ...

- a. Write a recursive formula for the sequence. Use  $u_1$  to represent the starting term.

$$U_n = 3 \cdot U_{n-1} \quad U_1 = 0.05 \quad n \geq 2$$

- b. Write an explicit formula for the sequence.

$$U_n = 0.05 \cdot 3^{(n-1)} \quad \text{or} \quad U_n = .016 \cdot 3^n$$

- c. What is the 7<sup>th</sup> term of the sequence?

$$U_7 = 0.05 \cdot 3^{(7-1)} \quad U_7 = 0.05 \cdot (729) = 36.45$$

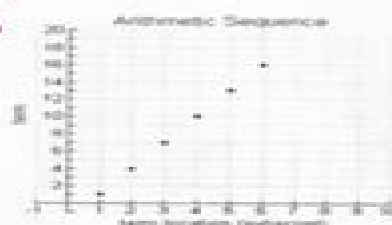
- d. Which term of the sequence is the first to be greater than 20,000?

$$\frac{20,000}{0.05} = 0.05 \cdot 3^{n-1} \quad 400,000 = 3^{n-1} \quad 3^{13} = 26,572.05 \quad U_{13}$$

7. Write an equation to define the sequence  $U_n$  graphed below.

| n | $U_n$ |
|---|-------|
| 1 | 1     |
| 2 | 4     |
| 3 | 7     |
| 4 | 10    |
| 5 | 13    |
| 6 | 16    |

$$d = +3$$



$$U_n = 3n - 2$$

or

$$U_n = 3(n-1) + 1$$

Geometric  
 $r = 3$

# Geometric Arithmetic Sequence Answer Key

**Barron's Educational Series, Gary  
Michael Rubinstein**



## **Geometric Arithmetic Sequence Answer Key:**

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