

1. Write a formula for the general term of the infinite sequence:  $\frac{1}{5}, -\frac{1}{10}, \frac{1}{15}, -\frac{1}{20}, \dots$

$$[A] t_n = \frac{(-2)^{n+1}}{5(n+1)} \quad [B] t_n = \frac{(-1)^{n+2}}{7n}$$

$$[C] t_n = \frac{(-1)^{n+2}}{5n} \quad [D] t_n = \frac{(-1)^{n+1}}{5n}$$

2. Write a formula for the general term of the infinite sequence:  $-\frac{1}{3}, \frac{1}{6}, -\frac{1}{9}, \frac{1}{12}, \dots$

$$[A] t_n = \frac{(-1)^n}{3n} \quad [B] t_n = \frac{(-2)^n}{3(n+1)}$$

$$[C] t_n = \frac{(-1)^{n+2}}{3n} \quad [D] t_n = \frac{(-1)^{n+2}}{n}$$

3. Write a formula for the general term of the infinite sequence:  $\frac{1}{6}, -\frac{1}{12}, \frac{1}{18}, -\frac{1}{24}, \dots$

$$[A] t_n = \frac{(-1)^{n+1}}{6n} \quad [B] t_n = \frac{(-1)^{n+2}}{4n}$$

$$[C] t_n = \frac{(-1)^{n+2}}{6n} \quad [D] t_n = \frac{(-2)^{n+1}}{6(n+1)}$$

4. Write a formula for the general term of the infinite sequence:  $-\frac{1}{4}, \frac{1}{8}, -\frac{1}{12}, \frac{1}{16}, \dots$

$$[A] t_n = \frac{(-1)^{n+2}}{4n} \quad [B] t_n = \frac{(-1)^n}{4n}$$

$$[C] t_n = \frac{(-2)^n}{4(n+1)} \quad [D] t_n = \frac{(-1)^{n+2}}{6n}$$

5. Write a formula for the general term of the infinite sequence:  $\frac{1}{2}, -\frac{1}{4}, \frac{1}{6}, -\frac{1}{8}, \dots$

$$[A] t_n = \frac{(-2)^{n+1}}{2(n+1)} \quad [B] t_n = \frac{(-1)^{n+2}}{4n}$$

$$[C] t_n = \frac{(-1)^{n+2}}{2n} \quad [D] t_n = \frac{(-1)^{n+1}}{2n}$$

6. Write a formula for the general term of the infinite sequence:  $-\frac{1}{5}, \frac{1}{10}, -\frac{1}{15}, \frac{1}{20}, \dots$

$$[A] t_n = \frac{(-1)^{n+2}}{5n} \quad [B] t_n = \frac{(-1)^{n+2}}{3n}$$

$$[C] t_n = \frac{(-1)^n}{5n} \quad [D] t_n = \frac{(-2)^n}{5(n+1)}$$

7. Write a formula for the general term of the infinite sequence:  $\frac{1}{3}, -\frac{1}{6}, \frac{1}{9}, -\frac{1}{12}, \dots$

$$[A] t_n = \frac{(-1)^{n+1}}{3n} \quad [B] t_n = \frac{(-1)^{n+2}}{n}$$

$$[C] t_n = \frac{(-1)^{n+2}}{3n} \quad [D] t_n = \frac{(-2)^{n+1}}{3(n+1)}$$

8. Write a formula for the general term of the infinite sequence:  $-\frac{1}{6}, \frac{1}{12}, -\frac{1}{18}, \frac{1}{24}, \dots$

$$[A] t_n = \frac{(-1)^{n+2}}{8n} \quad [B] t_n = \frac{(-2)^n}{6(n+1)}$$

$$[C] t_n = \frac{(-1)^{n+2}}{6n} \quad [D] t_n = \frac{(-1)^n}{6n}$$

Algebra I Practice F.LE.A.2: Sequences

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[1] D

[2] A

[3] A

[4] B

[5] D

[6] C

[7] A

[8] D