ARKANSAS PRECALCULUS · UNIT 4 · 10 QUESTIONS

Limits, Sequences, and Series — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 The 3rd term of the geometric sequence with $a_1 = 5$ and $r = 2$ is

- A 10
- B 20
- C 15
- D 40

Understand It with Pulse | Flag a mistake

2 The sum of $1 + \frac{1}{3} + \frac{1}{9} + \text{cdots to infinity}$ is

- A 1
- B 3
- C $\frac{3}{2}$
- D 2

Understand It with Pulse | Flag a mistake

3 The sequence defined by $a_n = 3n - 2$ has a_5 equal to

- A 10
- B 12
- C 15
- D 13

Understand It with Pulse | Flag a mistake

4 The sum of the first 6 positive integers is

ANSWER _____

Understand It with Pulse | Flag a mistake

5 The 5th term of 4, 8, 12, 16, … is

ANSWER _____

Understand It with Pulse | Flag a mistake

6 $\lim_{x \to 1} (x^3 + 2)$ is

A 3

B 2

C 1

D 4

Understand It with Pulse | Flag a mistake

7 The sum $\sum_{k=1}^{3} 2k$ is

A 6

B 12

C 8

D 10

Understand It with Pulse | Flag a mistake

8 **The sum of the first 3 terms of 5 + 10 + 20 is**

A 25

B 30

C 35

D 40

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9 **If $a_1 = 3$ and $d = 4$, then a_3 is**

A 7

B 9

C 12

D 11

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10 $\lim_{x \to \infty} \frac{2}{x}$ is

A 0

B 2

C ∞

D -2

Understand It with Pulse

Flag a mistake

ANSWER KEY

1.	B	**5.**	20	**9.**	D
2.	C	**6.**	A	**10.**	A
3.	D	**7.**	B		
4.	21	**8.**	C		

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