ⓘ Students have either already taken or started taking this quiz, so take care when editing it. If you change any quiz questions in a significant way, you might want to consider re-grading students' quizzes who took the old version of the quiz.

Points 100 Published

Details Questions

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Group 1

Group Name Pick 4 questions, 5 pts per question Pick ☐ questions, ☐ pts per question

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Question 1 pts

What are the next three terms in the sequence $2, 3, 7, 11, 13, \cdots$

- 17,19,23
- 17,21,23
- 17,22,23
- 17,19,24

Question 1 pts

What are the next three terms in the sequence: 6,12,20,30,..

- 42,56,72
- 42,56,68
- 42,56,74
- 42,54,72

Question 1 pts

The next term of the sequence: 0.02, 0.06, 0.18… is?

- 0.54
- 0.00034
- 0.054
- 0.0054

Question 1 pts

If a = 3, r = 2, then the nth term of the G.P is

- 3*2^(n-1)
- 2*3^(n-1)
- 3^n
- 2^n

Question 1 pts

A sequence of numbers whose reciprocals form an arithmetic progression is called the

- Harmonic progression
- Geometric progression
- Complex Progression
- None of the above

Group

Group Name Pick 5 questions, 10 pts per question Pick questions, pts per question

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Question 1 pts

Find the sum of the first 10 terms of the following series:

3+7+11+...

- 210
- 200
- 220
- 190

Question 1 pts

What is the infinite sum of the series:

$1+\frac{1}{3}+\frac{1}{9}+\frac{1}{27}+\frac{1}{81}+\cdots$

- 3/2
- 2
- 3
- 2/3

Question 1 pts

Insert three numbers between 1 and 256 so that the resulting sequence is a Geometric Progression.

The numbers are?

- 4,16,64
- 5,25,125
- 3,27,81
-

Question 1 pts

What is the infinite sum of the following series?

$\frac{1}{2}+\frac{1}{4}+\frac{1}{8}+\cdots$

- 1
- 2
- 0.5
- 1.5

Question 1 pts

In an arithmetic series, the sum of the first ten terms is 120. If the first term is 3, what is the 15th term?

- 31
- 41
- 28
- 27

Question 1 pts

If the arithmetic and geometric mean of two numbers a and b are 10 and 8 respectively, then the numbers are:

- a=4 and b=16
- a=6 and b=14
- a=8 and b=12
- a=2 and b=18

Group 3

Group Name Pick 2 questions, 15 pts per question Pick questions, pts per question

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Question 1 pts

What is the sum of n terms of the sequence 8, 88, 888,8888,⋯

a. $\frac{80}{81}[10^n - 1] - \frac{8}{9}n$
b. $\frac{70}{81}[10^n - 1] - \frac{8}{9}n$
c. $[10^n - 1] - \frac{8}{9}n$
d. None of the above

- a
- b
- c
- d

Question 1 pts

The sum of the first three terms of a GP is 13/12 and their product is -1. Then find the common ratio.

- -3/4 or -4/3
- 3/4 or -4/3
- -3/4 or 4/3
- None of the given

Question 1 pts

The second term of GP is 4 and the fourth term is 8. What is the 11th term of the GP? given that the common ratio is a positive number.

- 64 √ 2
- 16 √ 2
- 128
- 81

+ New question + New question group Find questions

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