AP & GP

(ASSIGNMENT :-2)

AP AND GP(ASSIGNMENT :-2)

Q 1. Find the 5th term of the G. P.: 1/7,1/14, 1/28 ...

A. 1/108

B. 1/112

C. 1/128

D. 2/115

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C. 1/128

D. 2/115

AP AND GP(ASSIGNMENT :-2)

Q 2. Find the sum of the G. P.: 8/10, 8/100, 8/1000, 8/10000, … to n terms.

A. $-\frac{8}{9}(1/10^n - 1)$

B. $\frac{8}{9}(8/10^n - 1)$

C. $\frac{8}{9}(2/10^n - 1)$.

D. $\frac{8}{9}(7/10^n - 1)$

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AP AND GP(ASSIGNMENT :-2)

Q 3. Find the sum of the following infinite G. P $\frac{1}{3}, -\frac{2}{9}, \frac{4}{27}, -\frac{8}{81}, \ldots\ldots\ldots$

A. 1/2

B. 1

C. 1/3

D. 1/5

AP AND GP(ASSIGNMENT :-2)

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AP AND GP(ASSIGNMENT :-2)

Q 4. The distance travelled (in m) by a ball dropped from a height are 128/9, 32/3, 8, 6... How much distance will it travel before coming to rest ?

A. $\frac{464}{9}$m

B. 120cm

C. $\frac{512}{9}$m

D. $\frac{256}{9}$m

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AP AND GP(ASSIGNMENT :-2)

Q 5. Insert three geometric means between 2 and 81/8.

A. 3, 9/2, - 27/4

B. - 3, 9/2, 27/4

C. 3, 9/2, 27/4

D. 3, 9/2, 27/8

AP AND GP(ASSIGNMENT :-2)

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B. - 3, 9/2, 27/4

C. 3, 9/2, 27/4

D. 3, 9/2, 27/8

AP AND GP(ASSIGNMENT :-2)

Q 6. The arithmetic mean between two numbers is 75 and their geometric mean is 21. Find the numbers.

A. 133 and 17

B. 63 and 87

C. 3 and 147

D. 73 and 77

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A. 133 and 17

B. 63 and 87

C. 3 and 147

D. 73 and 77

AP AND GP(ASSIGNMENT :-2)

Q 7. The product of first three terms of a G. P. is 512. If we add 2 to its second term, the three terms form an A. P. Find the terms of the G. P.

A. 4, 8, 16

B. 16, 8, 4

C. 12, 24, 48

D. Option A or B

AP AND GP(ASSIGNMENT :-2)

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D. Option A or B

AP AND GP(ASSIGNMENT :-2)

Q 8. The sum of an infinite G. P. with positive terms is 48 and sum of its first two terms is 36. Find the second term.

A. 10

B. 18

C. 12

D. 20

AP AND GP(ASSIGNMENT :-2)

Q 8. The sum of an infinite G. P. with positive terms is 48 and sum of its first two terms is 36. Find the second term.

A. 10

B. 18

C. 12

D. 20

AP AND GP(ASSIGNMENT :-2)

Q 9. In the series 2, 6, 18, 54, ... what will be the 8th term ?

A.4370

B. 4374

C. 7443

D.7434

AP AND GP(ASSIGNMENT :-2)

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AP AND GP(ASSIGNMENT :-2)

Q 10. Find the number of terms in the geometric progression 6, 12, 24, ..., 1536

A. 10

B. 9

C. 22

D. 20

AP AND GP(ASSIGNMENT :-2)

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A. 10

B. 9

C. 22

D. 20

AP AND GP(ASSIGNMENT :-2)

Q 11. Determine the common ratio *r* of a geometric progression with first term is 5 and forth term is -40.

A. 1

B. - 2

C. 2

D. 10

AP AND GP(ASSIGNMENT :-2)

Q 11. Determine the common ratio *r* of a geometric progression with first term is 5 and forth term is -40.

A. 1

B. - 2

C. 2

D. 10

AP AND GP(ASSIGNMENT :-2)

Q 12. Let a_n be an increasing geometric progression. If the first term $a_1 = 2$ and the fifth term $a_5 = 162$, determine a_3

A. 5

B. -8

C. 18

D. 10

AP AND GP(ASSIGNMENT :-2)

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AP AND GP(ASSIGNMENT :-2)

Q 13. Let a_n be a geometric progression, such that a1=2 and r=3. Find the sum of the first five elements.

A. 547

B. -82

C. 242

D. 100

AP AND GP(ASSIGNMENT :-2)

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AP AND GP(ASSIGNMENT :-2)

Q 14. Let a_n be a geometric progression defined as $a_1 = 1$ and $r = 5$. Find the sum $a_1 + a_2 + a_3 + a_4 + a_5$

A. 855

B. 554

C. 285

D. 781

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THANK YOU