第5课时 等比数列的前n项和(3).67

. 填空题

1.将下列小数化为分数。

(1)0.
$$43 = \frac{43}{100}$$
 1(2)2. $137 = \frac{2135}{100}$

Lacra. 1 cser

2. 若 $\lim_{n \to \infty} \left(\frac{1-\alpha}{2\alpha}\right)^n = 0$,则实数 α 的取值范围为 α 7 $\frac{1}{2\alpha}$

3. 已知等比数列 $\{a_n\}$ 的前 n 项和为 S_n , 岩 $a_n=4\cdot\left(-\frac{1}{2}\right)^{n-1}$. 则 $\lim S_{n} = \frac{1}{\sqrt{12}} \qquad \qquad \qquad \underbrace{4}_{12} = \frac{1}{\sqrt{12}}$

4. 若 (a_s) 是无穷等比数列,且 $\lim_{s\to +\infty} (a_1+a_2+\cdots+a_n)=\frac{2}{3}$,则其首 3 a = 2 - 29 - 34 to a = 229. Chi the 項 a: 的取值范围是 (5) -

5. 一个球自高为 6 m 的地方自由落下,每次着地后回弹高度为原来

二、选择题

6. 一个公比的绝对值小于 1 的无穷等比数列中,已知各项的和为 15 。各项的平方和为 45 ,则此数列的首项为 15 。各项的平方和为 45 ,则此数列的首项为 15 。 15

取值范围是 A.[0,1]; $B.[0,\frac{1}{2})\cup(\frac{1}{2},1]:$ A.[0,1];

又在数列 $\{a_n\}$ 中。若 $a_i = \frac{1}{5}, a_n + a_{n+1} = \frac{6}{5^{n-1}}, 则 \lim_{n \to \infty} (a_1 + a_2 + \cdots + a_n)$

a,)的值为

 $A.\stackrel{?}{=}i$

B. = ;

三、解答题

9. 已知数列(a,)的前 n 项和为 S, , a, = 2"-1, 求 lim S, .

 $\lim_{n \to \infty} S_n = \frac{3}{2}$

德正处

修正分

10、计算, 0.12+0.012+0.0012+…

$$V : HM : \lim_{1 \to 1} \frac{\frac{1}{2} + \frac{1}{4} + \dots + \frac{1}{2^{n}}}{\frac{1}{3} + \frac{1}{9} + \dots + (-1)^{n-1} \cdot \frac{1}{3^{n-1}}}$$

$$Coun Sh = \frac{1}{1 - \frac{1}{1 - \frac{1}{2}}} = \frac{1}{3}.$$

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7.

四、能力拓展题

以、已知数列 $\{a_n\}$ 的前n项和 S_n 与 a_n 满足 $S_n=ka_n+1$ (其中k是与n 无关的常数,且 $k\neq 1$)。

- (1)试写出 a, 的表达式(用 n, k 表示);
- (2)若 lim S, -1,求力的取值范围,