


If the sequence is convergent then

Select the correct option

- |                       |   |
|-----------------------|---|
| <input type="radio"/> | it is bounded below but may not be bounded above.   |
| <input type="radio"/> | it is bounded above but may not be bounded below.   |
| <input type="radio"/> | it has two limits.  |
| <input type="radio"/> | it is bounded.  |

The series  $\sum_{n=0}^{\infty} r^n$ ,  $-1 < r < 1$ , is

Select the correct option

Select an option

- |                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | divergent.                                    |
| <input checked="" type="radio"/> | convergent and converges to $\frac{1}{1-r}$ . |
| <input type="radio"/>            | convergent and converges to 5.                |
| <input type="radio"/>            | convergent and converges to $\frac{1}{1+r}$ . |

Submit your answer

If  $f(x) = \sqrt{4-x^2}$  and  $g(x) = \sqrt{x-1}$ , then domain of the quotient function  $f/g$  is

Select the correct option

- |                                  |           |
|----------------------------------|-----------|
| <input type="radio"/>            | $(1, 2]$  |
| <input checked="" type="radio"/> | $[1, 3]$  |
| <input type="radio"/>            | $[7, 8]$  |
| <input type="radio"/>            | $[-3, 3]$ |

Time remaining: 11:51:23 AM

If  $\{s_n\}$  is -----, then  $\lim_{n \rightarrow \infty} s_n = \inf \{s_n\}$ .

Select the correct option

Reveal Math Equat



nonincreasing



increasing



decreasing



nondecreasing

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## Question # 6 of 10 ( Start time: 11:48:19 AM, 03 June 2021 )

The value of the  $\lim_{x \rightarrow \infty} \frac{1}{x^p}$  is

Select the correct option



$$\lim_{x \rightarrow \infty} \frac{1}{x^p} = 3 \text{ for all } p,$$



$$\lim_{x \rightarrow \infty} \frac{1}{x^p} = 0 \text{ for } p > 0,$$



$$\lim_{x \rightarrow \infty} \frac{1}{x^p} = 1 \text{ for all } p > 1,$$



$$\lim_{x \rightarrow \infty} \frac{1}{x^p} = 1 \text{ for all } p,$$

Question # 5 of 10 ( Start time: 11:47:23 AM, 03 June 2021 )

If  $\{s_n\}$  is bounded above and does not diverge to  $-\infty$ , then there is a unique real number  $\bar{s}$  such that  
if  $\varepsilon > 0$ ,  $s_n < \bar{s} + \varepsilon$  -----

Select the correct option

for small  $n$



for large  $n$




Final Answer: 1/2

Question # 4 of 10 ( Start time: 11:46:14 AM, 03 June 2021 )

The series  $\sum_{n=0}^{\infty} r^n, \quad |r| < 1$

Select the correct option

- |                       |  |
|-----------------------|--|
| <input type="radio"/> | divergent.   |
| <input type="radio"/> | convergent and converges to $\frac{1}{1+r^2}$ .  |
| <input type="radio"/> | convergent and converges to 5.   |
| <input type="radio"/> | convergent and converges to $\frac{1}{1-r}$ .  |

Question 4 2 of 10 ( Start time: 11:44:14 AM, 03 June 2021 )

Let  $\sum_{n=1}^{\infty} a_n = A$  and  $\sum_{n=1}^{\infty} b_n = B$ , where  $A$  and  $B$  are finite. Then  $\sum_{n=1}^{\infty} ca_n = \dots\dots\dots$

Select the correct option

Select

 $c - A$  $c + A$  $cA$  $\frac{c}{A}$ 

On 03/06/2021 11:44:14 AM



Question 4 3 of 10 ( Start time: 11:44:53 AM, 03 June 2021 )

The value of the

$$\lim_{x \rightarrow \infty} \frac{1}{x^p}$$

is

Select the correct option

$\lim_{x \rightarrow \infty} \frac{1}{x^p} = 0$  for  $p > 1$ .

$\lim_{x \rightarrow \infty} \frac{1}{x^p} = 0$  for all  $p$ .

$\lim_{x \rightarrow \infty} \frac{1}{x^p} = 1$  for all  $p$ .


$\lim_{x \rightarrow \infty} \frac{1}{x^p} = 1$  for  $p > 1$ .

Time: 00:00:00 / 10:00:00

If  $\{a_n\}_k^\infty$  is an infinite sequence of real numbers, the symbol  $\sum_{n=k}^{\infty} a_n$  is ----- and  $a_n$  is the  $n^{\text{th}}$  term of series.

Select the correct option

Select Mark

- infinite series
- finite series 

Click on See Answer &amp; Answer Key (1/10)