

The Secret of Calculus BC Root Test of Convergent and Divergent Infinite Series (Calcul...

Lesson 344 | Calculus BC | Root test

<https://www.youtube.com/watch?v=xjAyj2LKt5Y>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Use the root test on $\sum$ from $m=1$ to ∞ of $(9/(21))^m$. State the limit and conclusion.

02

Use the root test on $\sum$ from $m=1$ to ∞ of $(10/(18))^m$. State the limit and conclusion.

03

Use the root test on $\sum$ from $m=1$ to ∞ of $(2/(14))^m$. State the limit and conclusion.

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04

Use the root test on Σ from $m=1$ to ∞ of $(9/(17))^m$. State the limit and conclusion.

05

Use the root test on Σ from $m=1$ to ∞ of $(5/(16))^m$. State the limit and conclusion.

06

Use the root test on Σ from $m=1$ to ∞ of $(11/(17))^m$. State the limit and conclusion.

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01

Use the root test on Σ from $m=1$ to ∞ of $(9/(21))^m$. State the limit and conclusion.

The m th root of the magnitude is $9/(21) < 1$. Root-test limit $3/7$; absolute convergence.

02

Use the root test on Σ from $m=1$ to ∞ of $(10/(18))^m$. State the limit and conclusion.

The m th root of the magnitude is $10/(18) < 1$. Root-test limit $5/9$; absolute convergence.

03

Use the root test on Σ from $m=1$ to ∞ of $(2/(14))^m$. State the limit and conclusion.

The m th root of the magnitude is $2/(14) < 1$. Root-test limit $1/7$; absolute convergence.

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04

Use the root test on Σ from $m=1$ to ∞ of $(9/(17))^m$. State the limit and conclusion.

The m th root of the magnitude is $9/(17) < 1$. Root-test limit $9/17$; absolute convergence.

05

Use the root test on Σ from $m=1$ to ∞ of $(5/(16))^m$. State the limit and conclusion.

The m th root of the magnitude is $5/(16) < 1$. Root-test limit $5/16$; absolute convergence.

06

Use the root test on Σ from $m=1$ to ∞ of $(11/(17))^m$. State the limit and conclusion.

The m th root of the magnitude is $11/(17) < 1$. Root-test limit $11/17$; absolute convergence.