

SOLUTIONS

III $a_n = \frac{2^n}{5^n}$

a) $\left\{ \frac{2}{5}, \frac{2^2}{5^2}, \frac{2^3}{5^3}, \frac{2^4}{5^4}, \dots \right\}$

$\left\{ \frac{2}{5}, \frac{4}{10}, \frac{8}{15}, \frac{16}{20}, \dots \right\}$

b) $\lim_{n \rightarrow \infty} \frac{2^n}{5^n} = \lim_{n \rightarrow \infty} \frac{2^n}{5^n} = \frac{2}{5} < 1$

The sequence diverges.

② $x = 3t^2 \Rightarrow \frac{dx}{dt} = 6t \Rightarrow \left(\frac{dx}{dt}\right)^2 = 36t^2$

$\frac{dy}{dt} = 6t^2 \Rightarrow \left(\frac{dy}{dt}\right)^2 = 36t^2$

$L = \int_0^1 \sqrt{36t^2 + 36t^2} dt$

$= \int_0^1 \sqrt{72t^2} dt$

$= \int_0^1 \sqrt{72} t dt = \sqrt{72} \left[\frac{t^2}{2} \right]_0^1$

$= \sqrt{72} \left[\frac{1}{2} - 0 \right] = \frac{\sqrt{72}}{2}$

$= \frac{6\sqrt{2}}{2} = 3\sqrt{2}$

③ $\lim_{n \rightarrow \infty} \frac{1}{n} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^2} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^3} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^4} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^5} = 0$

④



There is a cusp at $t = \frac{\pi}{2}$

$\therefore \int_0^{\frac{\pi}{2}} 2\pi \sin^2 t \sqrt{\left(\frac{dx}{dt}\right)^2 + \left(\frac{dy}{dt}\right)^2} dt$

$x = 2\cos^4 t \Rightarrow \frac{dx}{dt} = 6\cos^3 t (-\sin t)$

$\left(\frac{dx}{dt}\right)^2 = 36\cos^6 t \sin^2 t$

$y = 2\sin^4 t \Rightarrow \frac{dy}{dt} = 6\sin^3 t \cos t$

$\left(\frac{dy}{dt}\right)^2 = 36\sin^6 t \cos^2 t$

$\therefore \int_0^{\frac{\pi}{2}} 2\pi \sin^2 t \sqrt{36\cos^6 t \sin^2 t + 36\sin^6 t \cos^2 t} dt$

$= 2\pi \int_0^{\frac{\pi}{2}} \sin^2 t \sqrt{36\cos^2 t \sin^2 t (\cos^4 t + \sin^4 t)} dt$

$= 2\pi \int_0^{\frac{\pi}{2}} \sin^2 t \cos t \sqrt{\cos^4 t + \sin^4 t} dt$

$= 2\pi \int_0^{\frac{\pi}{2}} \sin^2 t \cos t \sqrt{\cos^4 t + \sin^4 t} dt$

$= 2\pi \int_0^{\frac{\pi}{2}} \sin^2 t \cos t \sqrt{\cos^4 t + \sin^4 t} dt$

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$= 2\pi \int_0^{\frac{\pi}{2}} \sin^2 t \cos t \sqrt{\cos^4 t + \sin^4 t} dt$

⑥

a) $\sum_{n=0}^{\infty} \left(-\frac{2}{3}\right)^n = 1 - \frac{2}{3} + \frac{4}{9} - \frac{8}{27} + \dots$

This is a G-series with $r = -\frac{2}{3}$

Converges to $\frac{1}{1-r} = \frac{1}{1+\frac{2}{3}} = \frac{3}{5}$

b) For the statement of the theorem see your notes or your text.

⑦

$\sum_{n=0}^{\infty} \frac{5}{2^n} + \sum_{n=0}^{\infty} \frac{1}{2^n} =$

$= 5 \sum_{n=0}^{\infty} \left(\frac{1}{2}\right)^n + \sum_{n=0}^{\infty} \left(\frac{1}{2}\right)^n$

G-series $-1 < r = \frac{1}{2} < 1$ The series converges

$\therefore \sum_{n=0}^{\infty} \left(\frac{5}{2}\right)^n = 5 \left(\frac{1}{1-\frac{1}{2}}\right) + \frac{1}{1-\frac{1}{2}}$

$= 5(2) + \frac{1}{\frac{1}{2}} = 10 + \frac{1}{\frac{1}{2}} = 12$

⑧

$\lim_{n \rightarrow \infty} \frac{1}{n} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^2} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^3} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^4} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^5} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^6} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^7} = 0$

⑨

If $\lim_{n \rightarrow \infty} a_n = L$

$\lim_{n \rightarrow \infty} \frac{1}{n} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^2} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^3} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^4} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^5} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^6} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^7} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^8} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^9} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^{10}} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^{11}} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^{12}} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^{13}} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^{14}} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^{15}} = 0$

$\lim_{n \rightarrow \infty} \frac{1}{n^{16}} = 0$

Hans Schoutens Calculus 2 Exam 3 Solutions

Daniel F McAuley



Hans Schoutens Calculus 2 Exam 3 Solutions:

The book delves into Hans Schoutens Calculus 2 Exam 3 Solutions. Hans Schoutens Calculus 2 Exam 3 Solutions is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Hans Schoutens Calculus 2 Exam 3 Solutions, encompassing both the fundamentals and more intricate discussions.

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- Chapter 1: Introduction to Hans Schoutens Calculus 2 Exam 3 Solutions
- Chapter 2: Essential Elements of Hans Schoutens Calculus 2 Exam 3 Solutions
- Chapter 3: Hans Schoutens Calculus 2 Exam 3 Solutions in Everyday Life
- Chapter 4: Hans Schoutens Calculus 2 Exam 3 Solutions in Specific Contexts
- Chapter 5: Conclusion

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