

SOLUTIONS

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

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

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

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

The sequence diverges.

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

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

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

$= \int_0^1 6\sqrt{2} dt$

$= 6\sqrt{2} \left[t \right]_0^1 = 6\sqrt{2}$

$= 6\sqrt{2} \left[\frac{1}{2} + \frac{1}{2} \right] = 6\sqrt{2}$

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4)



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

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

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

$\left(\frac{dx}{dt}\right)^2 = 36\cos^4 t \sin^2 t$

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

$\left(\frac{dy}{dt}\right)^2 = 36\sin^4 t \cos^2 t$

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

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

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

$= 2\pi \int_0^{\frac{\pi}{2}} \sin^2 t \cdot 6\cos t \sin t dt$

$= 12\pi \int_0^{\frac{\pi}{2}} \sin^3 t \cos t dt$

$= 12\pi \left[\frac{\sin^4 t}{4} \right]_0^{\frac{\pi}{2}} = 12\pi \left(\frac{1}{4} \right) = 3\pi$

$= 3\pi$

$= 3\pi$

$= 3\pi$

$= 3\pi$

$= 3\pi$

6)

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

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

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

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

$\therefore \text{The series converges}$

$= 5 \left(\frac{1}{1-\frac{1}{2}} \right) + \left(\frac{1}{1-\frac{1}{2}} \right)$

$= 5(2) + 2 = 10 + 2 = 12$

8)

$\frac{1}{1-x} = \frac{1}{1-x} + \frac{1}{1-x}$

$= \frac{1}{1-x} + \frac{1}{1-x}$

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$= \frac{1}{1-x} + \frac{1}{1-x}$

9)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$\lim_{n \rightarrow \infty} \frac{1}{n^{17}} = 0$

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D. R. Arterburn



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