

# SOLUTIONS

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

$\{ \frac{2}{5}, \frac{2^2}{5^2}, \frac{2^3}{5^3}, \frac{2^4}{5^4}, \dots \}$

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

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

The sequence diverges.

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

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

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

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

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

$= 6\sqrt{2}$

$= 6\sqrt{2}$

$= 6\sqrt{2}$

$= 6\sqrt{2}$

$= 6\sqrt{2}$

$= 6\sqrt{2}$

$= 6\sqrt{2}$

$= 6\sqrt{2}$

④



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

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

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

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

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

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

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

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

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

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⑥

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

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

$-1 < \frac{-2}{e} < 1 \Rightarrow$  The series converges to  $\frac{1}{1 - \frac{-2}{e}} = \frac{e}{e+2}$

$= \frac{e}{e+2}$

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

$\therefore$  The series converges to  $5 \left(\frac{1}{1-\frac{1}{2}}\right) + \frac{1}{1-\frac{1}{2}} = 5(2) + 2 = 12$

$= 5(2) + 2 = 12$

$= 5(2) + 2 = 12$

$= 5(2) + 2 = 12$

$= 5(2) + 2 = 12$

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$= 5(2) + 2 = 12$

$= 5(2) + 2 = 12$

⑧

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

$\lim_{n \rightarrow \infty} \frac{1}{a_n} = \frac{1}{L}$

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$\lim_{n \rightarrow \infty} \frac{1}{a_n} = \frac{1}{L}$

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