Solution of Demo Quiz

(1) let Q be the set of rational numbers. Then QVQC =

The real line BQC QQ D\$

Det K, , Kz, Kz and Ky be sufremens, infimens, a lower bound and an upper bound of a set s. choose the correct option from below:

A $K_1 \leq K_2 \leq K_3 \leq K_4$ B $K_4 \leq K_3 \leq K_2 \leq K_1$

 \bigcirc $K_{4} \leq K_{2} \leq K_{1} \leq K_{3}$ \bigcirc $K_{3} \leq K_{2} \leq K_{1} \leq K_{4}$

(We have a lower & Inflowers & Supremum & an bound

- 3 choose the INCORRECT option".
 - F) In steal number system, every cavely sequence is convergent.
 - (B) In real neumber system, every convergent seguence is bounded.
 - Din real number system, a country sequence need not be bounded.
 - Jos seal number system, a convergent sequence, is carely sequence.

Find the limit of sequence whole now term is given by - $q_{n} = \frac{\eta}{\eta_{3+1}} + \frac{2\eta}{\eta_{3+2}} + \dots + \frac{\eta^{2}}{\eta_{3+n}^{3}}$

DO B 1 D 1 is a divergent sequence.

Tutorial sheet 2 > Question 2 C]

(5) What is $V_{0,1}(-2)$?

Ans $V_{\varepsilon}(a) = (a-\varepsilon, a+\varepsilon)$ $\forall \varepsilon 70$.

$$V_{0.01}(-2) = (-2-0.01, -2+0.01)$$

= $(-2.01, -1.99)$