Solution - Quiz 1

1) What is Bolzano-Weierstrass theorem?

Every convergent sequence is bounded.

B Every convergent sequence has a bounded subsequence.

E All subsequence of a convergent sequence aux bounded.

Every bounded sequence has a converget subsequence.

(2) Consider sequence whose who team is given as follows: $a_n = \frac{m^3}{3^n}$. Then sequence a_n

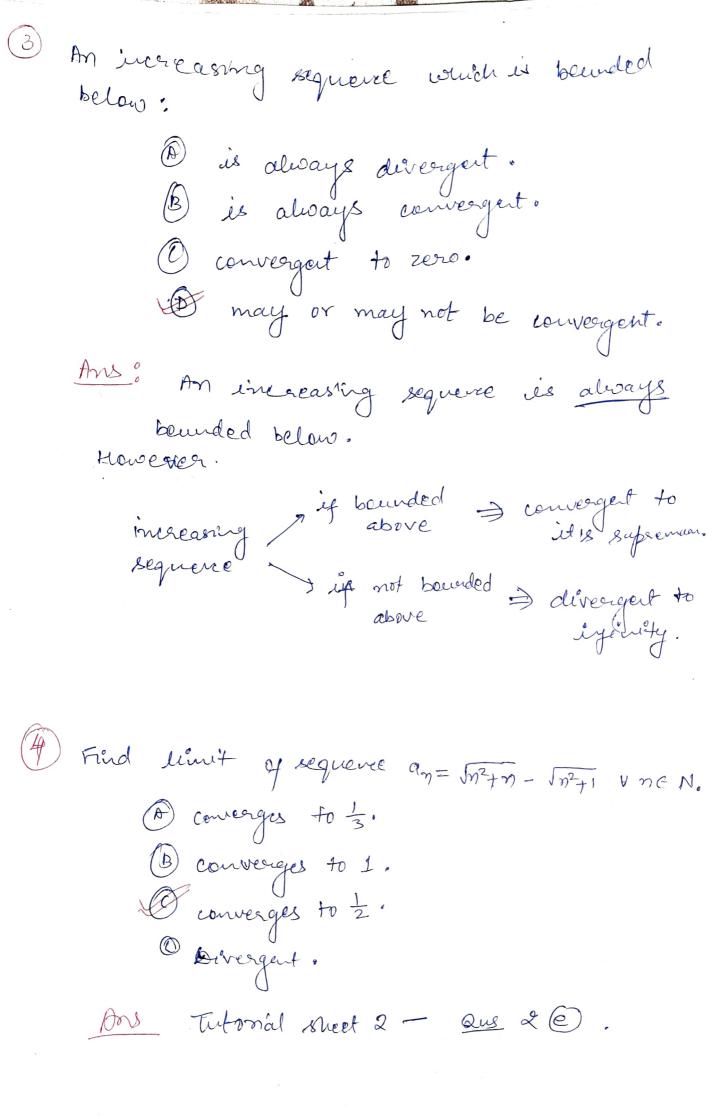
A is convergent to e.

is convergent to 0.

Des convergent to 1.

3 dérengent to os.

And Tuto n'al Meet $2 = \text{Questron 4}(\hat{c})$. Put x = 3 and k = 3.



(5) Find V5(3).

(-4.7,5,3)

(07, 503)

(407,5.3)

(-4.7, -5.3)

Dos we know $V_{\varepsilon}(a) = (a-\varepsilon, a+\varepsilon)$.

 $V_5(.3) = (.3-5, .3+5)$ = (-4.7, 5.3)