Partial At Amaliza

MIE decembrie 2017 Analiza 1, Anca Grad

mimoA, majoA, mimA, maxA, imfA, supA

intA, extA, bolA, \$ JzoA, lA, A'

A e v(ii)?; is closed?

e) prove IRIN ev(i)?, closed?

[Ex2] a) theorem concorning bounded and convergent sequence b) + proof

c) lim 14+25+...+ m4

[Ex3 a) Cauchy's Condensation criterion

b) necessity of a) "=>"

c)
$$\frac{3^{m-2}+(-4)^{m+3}}{5^{m+1}}$$
 $\frac{5}{m+2}$ $\frac{\sqrt{m}-\sqrt{m+2}}{\sqrt{m(m+1)(m+2)}}$

d) study nature (c. or b.)

$$\sum_{m \geq 1} \left(\frac{m^2 + m + 1}{m^2} \cdot \alpha \right)^m, \quad \alpha > 0 \quad \text{is} \quad \sum_{m \geq 1} \frac{m!}{2^m}$$

(Ex4) a) characterisation theorem with E and of of continuity b) sufficiency of a) (=" c) study continuity f: (-00, 1) Ufily U[21,00) -> 12 $P(x) = \left[x \sin(x + \frac{\pi}{2}) : x \in (-\infty, 0) \right]$ 1 : XETO, JUAN 4 $C85(X+\frac{1}{2}): X \in [2i], \infty) \cap \mathbb{Q}$: XE[21,00) N(RQ)