Deckblatt für die Abgabe der Übungsaufgaben IngMathC12

Name, Vorname:

Varily James

StudOn-Kennung:

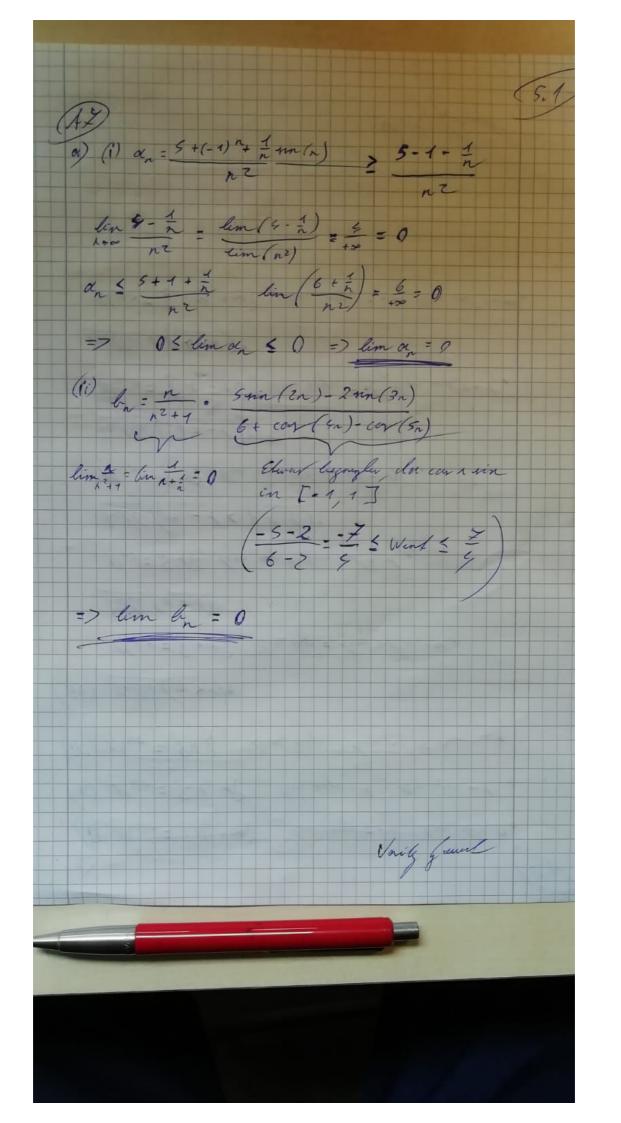
Blatt-Nummer:

Übungsgruppen-Nr:

Die folgenden Aufgaben gebe ich zur Korrektur frei:

ft, f8, f9

10/10*30=30



(i) MHP = {0, +00} lim my = +0 lim ill = 0. (1) Mro = 3-1, 13 , lim sup = 1 , lin ife - 1 . (iii) Nno = 3 ng line ny = lim onf = n (iv) Falls (q > 1): MAP = { +0} lim ny = lim if = +0, tocks (q = 1): M42 = { 13 lim ny = lim on = 1 0 Fulli (92 - 1 < 9 < 1); My = 803 km my = Cim inf = 0. Tulle (9 = -1): Mr. p = { 1, -13 lim my = 1 lim inf = -1, Falle (q 4 - 1): MNP = \ = \ = \ + \in , lim my = + \in , lim ml = - \in . Varily Court

a) (1) \(\frac{1}{2} \) \(\f => Keine Nullforge summel in & the = +00 e A) \$\frac{5}{3k^2+2k}\$ Wazelshibirium lim sup & MA-1 12 der h = 2 &. = lim my \$ \\ 202428) = 48 1 lim my 18-1 = lim my 1/2 + = - lin my 1/1- 3' 1/3 + = 1 in my Uh . Cin my 7/3+2 +0.3 Samil al die Riche absolut Lanung a) 5 min & 2 1 1 Warzelle, (1 = 1) lim my to 1 th = lin my of the = lin my to = 0 Rube & RA il abolel Sanveyed = 5 Riche I min k ish wholat forwaged

(dch wie wiel zich mir Winur geho l=1 2k = 2 (Nh+2) - (N-1) = 5 3 eR(VR+1 +VR-1) Questintensortereum.

lim | 3. (2844 (VRR + VR-1)) |

3. (28+4 (VRH + VR)) | imm per lin were often

= lim | 3.28 (VRH + VR-1) | = lim 3. lim (VRH + VR-1)

= lim | 6.28 (VR+3 + VR-1) | = lim 3. lim (VRH + VR-1)

= \frac{1}{2} \cdot \lim \frac{\sqrt{1}}{\sqrt{1}} (\sqrt{1}+\frac{1}{2} + \sqrt{1})

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(19) a) (i) \(\sum_{\text{e-1}} = \text{k+3} \) \(\sum_{\text{e-1}} \frac{2}{3\text{R}^2} \) \(\sum_{\text{e-1}} \frac{2}{3\text{e-1}} \) \(\sum_{\text{e-1}} \frac{2}{3\text{R}^2} \) \(\sum_{\text{e-1}} \frac{2}{3\text{R}^2} \) \(\sum_{\text{e-1}} \frac{2}{3\text{R}^2} \) \(\sum_{\text{e-1}} \frac{2}{3\text{e-1}} \) \(\sum_{\text{e-1}} \frac{2}{3\text{e-1}} \) \(\sum_{\text{e-1 = \(\frac{1}{3}, \frac{1}{64} = \frac{1}{3}, \quad \frac{1}{54} \\
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\frac{1}{3}, \quad \quad \frac{1}{3}, \quad \qua (i) R) 5 6R2+3 Die Filge $4 \frac{2}{4} + \frac{3}{4}$ $\frac{1}{4} + \frac{3}{4} + \frac{3}{4} + \frac{4}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{4}{4} + \frac{4}{4} + \frac{3}{4} + \frac{4}{4} + \frac{4}{4} + \frac{3}{4} + \frac{4}{4} + \frac{$ => Pie Reike il Liverger & Till & the see of the state of the server of Alinary of > Reike it divergent Vorily Gunet

(1) an= nin m int bentrands und jebe benkradh Julye im A lot mintohen den Häufungspundt (2) by = sin(n2) ish bentraill und jube le Folge im R hal minderhor einen 4P. (3.) En = sin(n) - 1 o un(n) Bentraille hely multiplized mil elver Nullage hat it in wallfolge, -> Konvergente talje had nur fregwent als HP, also sin HP who with mehrere, (ii) 3 hun der 3, der no nin(n) => Nullfurge => forguert = KIP = 0. Verily