Deckblatt für die Abgabe der Übungsaufgaben IngMathC(1+1)

Name, Vorname:

Varily Gund

StudOn-Kennung:

Blatt-Nummer:

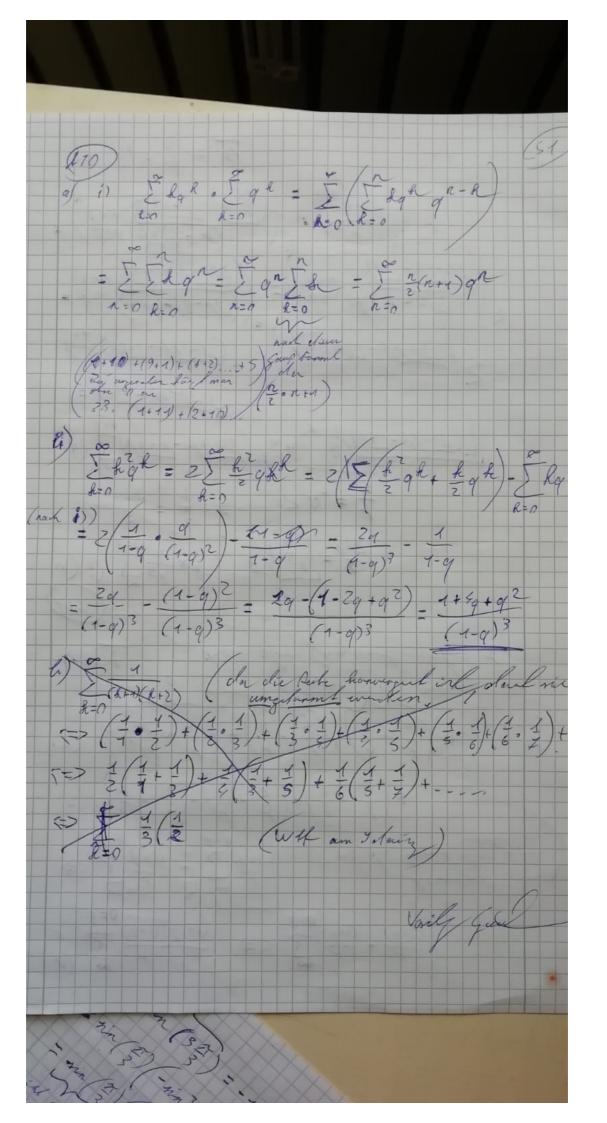
Übungsgruppen-Nr:

04

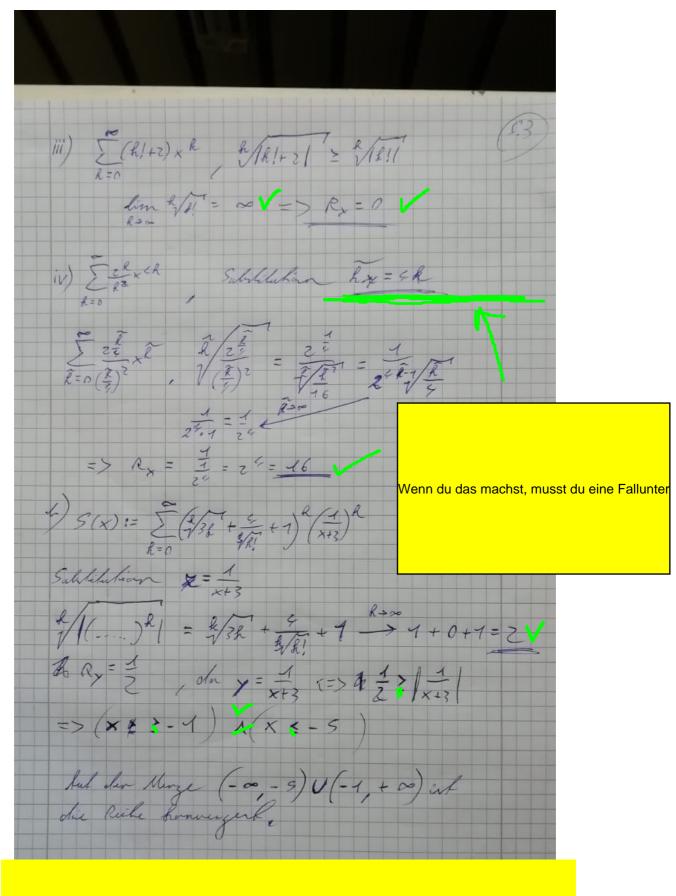
Die folgenden Aufgaben gebe ich zur Korrektur frei:

MO, AH, ATZ,

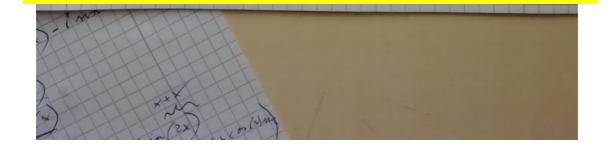
7/10 *30 = 21



E) \(\frac{1}{(R+1)} \left(\frac{1}{(R+1)} \right) \(\frac{1}{(R+1)} \right) \(\frac{1}{(R+1)} \right) \(\frac{1}{(R+1)} \right) \) (2) E (Re) - E (Re) (der Begreef leer , (=) (= - 1) + (= - 1) + (= - 1) + (2) \frac{1}{7} + \binom{1}{2} - \frac{1}{3} + \binom{1}{3} - \frac{1}{3} - (=) I die der jugwert ist 1 (A11) $\sum_{k=0}^{\infty} \frac{sk}{k} \times k \qquad k \left(\frac{sk}{k} \right) = \frac{s}{k} \times k$ lim & = 5 = 5 => Rx = 1 i) \(\langle (\langle R+1'-\langle N-\vert)^2 \R & \(\langle \langl = (VA+1-VR-VE)2 lim (VIII - VR-VK) = (lim (VIII - VR-VK)) = Kim (h+1)-(h-Vh) = (km k(1-Vh)) = (k+1+Vk-Vh) = (lim 2/x(1/2-1)) = (-1) = 1/4-1/2 => R= = 4



das gilt nur im inneren, die Ränder gelten erstmal nicht.(Hier muss man sich die Ränder auch nich



(1) sin (32) = - sin (2) + 3 sin (2) con (2) = nin (=) (-nin (=) + 3 cos (=) = nin (=) + 1 - ni (=) = min (3) (- 4 min (3) + 3) mist 0 => - 2 sin 2 (3) + 3 = 0 (=> 3 - sin 2 (3) dagentin (3) sin (3) = 1/3 = 1/3 mn 2 (3) + coer 2 (2) = 4 (=) cay 2 (2) = 1 - mn 2 (2) = 1 - 3 = 1 In partie car (3)= 1/2 = 1 D 12 = car 2 = 1 - 2 sin 2 = (=) \frac{1}{2} = 1 - \frac{3}{4} 2 \sin^2 \frac{7}{6}

(=) 2 \sin^2 \frac{7}{6} = 1 - \frac{1}{2} = \frac{1}{2} \quad \text{du parlier} (=> rin 1 = /1 = 1 => min 2 + con 2 2 = 4 => con 2 7 = 4 - 1 = 3 (da per.) con 1 = 13 111 13 = cor 27 = 1-2nin2 1 = > knin2 1 = 1-13 - 2-13 -> Zun ? = 1/2-1/3" A Manten => con 2 1 = 1 - 2 - 1/2 - 4 - 2 - 1/3 - 2+1/3 - AV => con I = 1/2+1/3

e"= cor(x) + ; which i) en (3. x) = en (ix) 3 => eix = en(eix) 3 () cas (3x) + i um (3x) = (car(x) + i or (x) = (car(x) + 2icor(x)mn(x) - mn(x)) (cor(x) + inn(x) = (as (x) + 2icos () + vin (x) - vin (x) car (x) + icas (1) mn (x) - 2cor(x) min (x) - i min 3(x) cos (x) + 3icon (x) nin (x) - 3cor (x) nin 2(x) - 1 nin 3(x) => cor (3x) = cov (x) - 3con (x) nin 2(x) nn (3x) = - sin 3(x) + 3 con (x) men (x 11) 32 = x+2x min (3x) = min (x + 2x) = yin (x) cay(2x) + cay (x) min (2x = uin (x) (cox(x) cox(x) - sin(x) nin (x) + cox(x) (sin(x)cox(x) + cox = min (x) cox (x) - sin (x) + cax (x) sin (x) + cax (x) sin (x) = - sin ? (x) + 3 sin (2) cas ? (x) cor(3x)=car(x+2x)= car(x)car(2x)- rin(x)rin(2x) = cor(x) [car (x) - min 2(x)) - rin(x) (car (x) min(x) + car(x) min(x) con 3(x) - con (a) nn 2(x) - con (x) mi 2(x) - con(x) m 2(x) = (ax 3 (x) - 3 car (x) +in2 (x)