=> 7= ~100 = ran 100 1 + 1 sim 100 10
= ran 25 11 + 1 sim 25 12

= ROOTE + A' TAM II

=> Z=W100 hat 121=121100=1 mnd
Polarwinhal 100 = 25 T -> TT

M2 Physik, W105106, Bobellausen 17,1,06, -2-2. Mulache 22 + 22 + 2 = 0 @ 2= 1 (-2 + V4-8)=-1+2 $= > R(z) = \frac{3z^2 + 2z}{(2-n)(2+n+i)(2+n-i)}$ PBZ- Smatti $R(t) = \frac{A}{2+1+1} + \frac{C}{2+1-1}$ (3)@ 322+22 = A(2+1+i)(++1-i) +17(t-1)(2+1-2)+((t-1)(2+1+2) モニイ: 5=A(2+i)(2-i) = A·5 => A=1 ==- 1-2: 3 (1+1)2 = 2(1+1) = 13 (-2-1)(-21) => 6 i - 2-20 = 13 (-2+4i) =, -2+41=13(-2+41) => 13=1 Allgemein - de 12(4) nun reelle Koell - gilt: ワーこ コノーイ oder 了= A + T + C = 2 + C = C= 1 oder 7=-1+1, ... PIT t lambet; $72(2)=\frac{1}{2-3}+\frac{1}{2+1+1}+\frac{1}{2+1-1}$ Alternativ: reelle PTB: x2+2x+2 beine | P(x)= 1 + 2x+2

P(x)- A + 17x+C (4) $R(x) = \frac{A}{x-x} + \frac{17x+c}{x^2+2}$ $3x^{2} + 2x = A(x^{2} + 2x + 2) + (17x + 6)(x - 1)$ x=1: 5=5A => A=1. x2: 3= A+17 => 17=1+17 => 17=2 x: 2=2A-17+(=) 2=2-2+(=) (=2/

Physik, WI 05/06, Probehlauser, 17.1.06 -3-1. Reihe I hzt: anotientenholerium; 1 (h+1) 2 ++1 |2| 121 (+1 < 1) => absolute Konvergem den peile. Zet vist lûn |z| en die absolut inrespente geom. Ruite (Val.) CA = 2 12 2 2 2 = 2 1 2 3 = 4(1+1) 2 h Noch Vorlaung vist das country- Bridult tween absolut honorgenter Reihen weide 2 abolish honre gent. h= 0, 0.2 = 0 = 2 $\frac{1}{h=0}(h+n)t^{h} = \frac{2}{(N-2)^{2}}$ (Vagabe) => \(\int_{k=0}^{\infty} \cdot \cho_k = \left(\frac{\infty}{\hat{k=0}} \cho \hat{k} \right) \left(\frac{\infty}{\hat{k=0}} \cho \hat{k} \right) = \frac{\infty}{(N-2)^{\infty}} (2) $\sum_{k=0}^{\infty} \frac{k(2k+1)}{2} 2^{k} = \frac{2}{(1-1)^{3}}$

MZ Physik, WT 65166 Probehlausun, 17,1,65-4 4. soulsabe 1. Fin x, y & [1] gill; $|f(x) - f(y)| = \left| \frac{1}{1+x} - \frac{1}{1+y} \right| = \frac{|x-y|}{|1+x|} \le \frac{4}{9} |x-y|$ $|x-y| = \frac{1}{3} = \frac{1}{3$ =) Teh 2. Fin x E [1, 1] gilt: $\frac{3}{2} = 1 + x = 2 = \frac{1}{2} = \frac{$ Folghick: +([], 17) C [], 1]. 7. f(x1=x6) 1/1+x=x e) x1+x=1 (+) $x^2 + x - 1 = 0$ (+) $x = \frac{1}{2}(-1) \pm \sqrt{1+4}$ €) x= \(\(\sigma \sigma \), fall \(\langle \sigma \) \(\langle \langle \), fall \(\langle \sigma \). رخ) 2= V8 = 7 => 1= V8-7=2 => 7 = V8-1=1 6 X= 1 (VS-1) int also de enmage Fix numble von f. 4. I temselvitt-stetis mit Lamschitt-kons-) tunde L= \frac{1}{5} < 1, [\frac{1}{2}, 1] hommant, f([],17) < [],17, namit some alle) Varausset tunger von A. 113 tofillt None A 117 on the home x = 2 = 2 (VF-1) h (Frix number vonit) $|x_{n} - \bar{x}| = |f(x_{n-n}) - f(\bar{x})| = \frac{4}{9}|\hat{x}_{n-n} - \hat{x}| \in$ m-met