DEMA 1º

(cr) Livere Tor opicho ons furixeras fras Gurapmens fir + TR 60 Eva Enphio X. ER. ( hovasa)

(A) EGEW 4: [GA] -> TR GUYDAPTIGN WEEK on 141 throw Riemann choraupoisifu tivas on of Riemann choestopiusifus; (0,5 hovises)

(x) Ester f: CO,1] + IR GENERICS GOVAPTION ROL g: CO,1] + R GRAZIENT Eiven on fg Remany adochopiusium; (0,5 hovases)

DEMA 2

Eferdeur ws noos en eugenhen ers naparatu audaudies: 
$$\frac{4^n}{n!}$$
,  $\sqrt{n+\sqrt{n}}-\sqrt{n}$ ,  $\left(1+\frac{1}{n^2}\right)^n$ ,  $\frac{2^nn!}{n^n}$  (2 movibes)

DEMA 3=

 $\sum_{n=1}^{\infty} {Nn-1}^n$ ,  $\sum_{n=2}^{\infty} \frac{1}{n(\log n)^2}$ ,  $\sum_{k=0}^{\infty} \frac{2^k}{k!}$ ,  $\sum_{k=1}^{\infty} {\lfloor k \sqrt{2} u - 1 \rfloor}$ Eferdere us nos ou Gujulion is napakaru

 $\frac{4^n}{1}$ ,  $\sqrt{n+\sqrt{n}}$  -  $\sqrt{n}$ ,  $\left(1+\frac{1}{n^2}\right)^n$ ,  $\frac{2^n n!}{n^n}$  (2 provides) DEMA 3:  $\sum_{N=1}^{\infty} {\binom{N}{N}} \frac{1}{n-1} \sum_{N=2}^{\infty} \frac{1}{n(\log n)^2} \cdot \sum_{N=2}^{\infty} \frac{2^N}{N} \cdot \sum_{k=1}^{\infty} {\binom{N}{2}} \frac{1}{k-1}$ Efethere is now the GUNLIGH TIS naparetru (2 pork 5+5) BEMA 42 Ynedoxicze ta auddowa odok Impirpara: (1) (x2(nx dx (0,6 hovases) y) (1+x) (1+x2) El Sxasxdx (0,6 portses) (fingin = fingin)- fingindr

"Este f: [0,1] -> R. Governis napazuzierum Govapmen. AV P= 10=x. <x1 < - <xn=11 Statepion Tool Call Softer ou [ ] (xx+1)-1(xx) | ≤ (1 | 1 / (+) | dt (2 porises) (x) Esta f: [0,2] > R GUVERIS GUVAPTION LE f(0) = f(2). Deitze on υπάρχη χε[0,1] με 4(x+1)=4(x). (0,5 μονδδες) (B) EGEW 4: LO, 1) -> R GUVERIS GUVERNEN DE MU ETIS ISIÓMINA: Sia tade avexi evapmen g: (q1) - R fe g(0) = g(1) exou ( flt) g(t) d+ =0. (45 horisa) AGITH ON f(x)=0 you ride xelo,1]