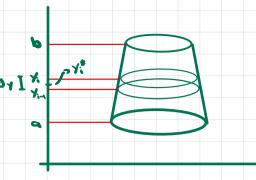
6.5 Face and clark
W=F.d
ctangue pla coustantace
Seneralization: Noticible force given by torce Junction FCX)
Cantest: FCV) defined at example in 1 and
Force acts on particle moving it som a to b.
what is the wall dane by this lorce?
Partition [a,b] into a staintent of the the theoretical a dail (d, 2] and than Partition of the Partition of
$\Delta W_i \approx F(X_i) \cdot \Delta X = clark to made pathole from X_{i-1} to X_i$
U = ZIDW; ≈ ZIFCX; DDX
Riemann Sum
W: JF(x)Jx
Fura to hald spring at pasition x
tooke's Law: F(x): kx, k>0, the spring constant
Mone 3 am 1 av 4 d'un c'hiedhindechara
200000
natural leight
Jeaton's Law of Granitation
In pass society to hard a pagh at a grapuse it prom the couper of the bath
F(1) = halding fake
$=\frac{k}{\epsilon^2}$, $k>0$
For 1 = R = 4000 mi (~6370 km), Fis called the useight of the body.
gra: lets of cyclocally ingole
1 hp defined as 33000 H-16/min
4 14 Course C2 22000 11 10 11/10

clark Done to Filhing = Torth

constant take aching through different distances

+ 116 force acceptages a 116 mass 4 9.80665 m122 - 32.174 H112



find the very all bearing with in the Mort Pilleton Levers liked dilleton dilloces

Auscic dave they rem copied to ACI) A(1) continuen [4., 4.]

- Pathian Ta, b) into n submitteds a length.

- A(7) = 1-1 . JACHO1

161; NA = 16(1)A : 1/10 = six behasian smule a

Lit, 1-147 on F smoot not

Wines bird . 9 a

. Ly, ... 1/3 no seal sence, takeight bank of 0 = 4 most souts and this of besides and a

F. = p DY: = p A(Y:) DY

Technoaly this is achally:

Force in Not : (PLN;) Hom . 32. MY HILL . 1 161

i will Hil of Now a

: p 04; 16t

Fix: < DW: < Fix

PX: , A(1,) DY & DW & PX: A(1,) D1

: i solt has be that sol libe

ZPY ACY!) DY & W & ZPP X ACY!) DY

these are Rieman sums.

Though 1:.., 1: alt i de not lie some, both soms approach [p/ACI)21 as 01-0

W. JAGIOT by the squeeze lowal limits