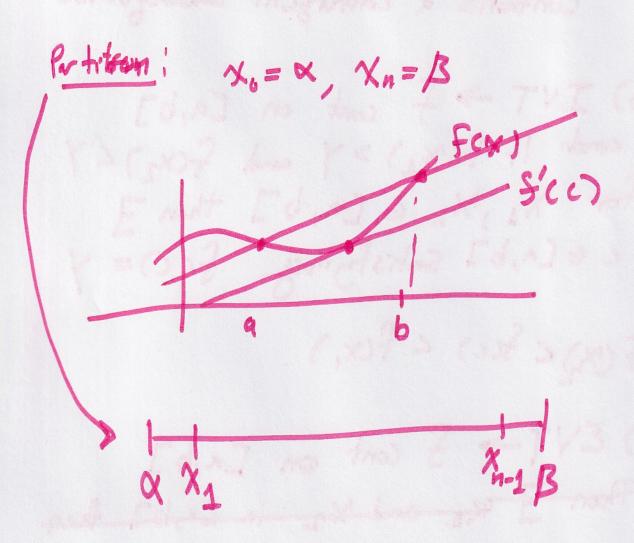
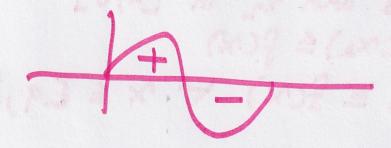
Meeting 17 E Avec Problems



Signed Arry



#1)

a) BWT -> A bounded sequence contains a convergent subsequence

b) IVT > f cont on [a,b]

and If f(x1) > Y and f(x2) < Y

for X1, X2 & [a,b] then I

c & [n,b] Satisfying f(c) = Y

5 CX2 2 Secon & fex,)

C) EVT > F cont on [a,b]

Then I Re and X in Ea,b] then

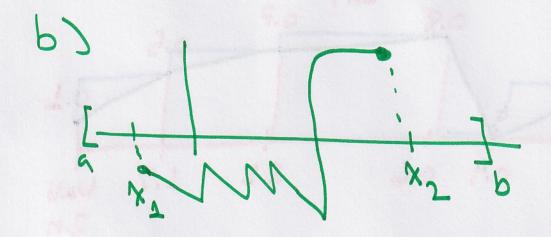
Let color in I x bone as E rout

Xiin and Xman St.

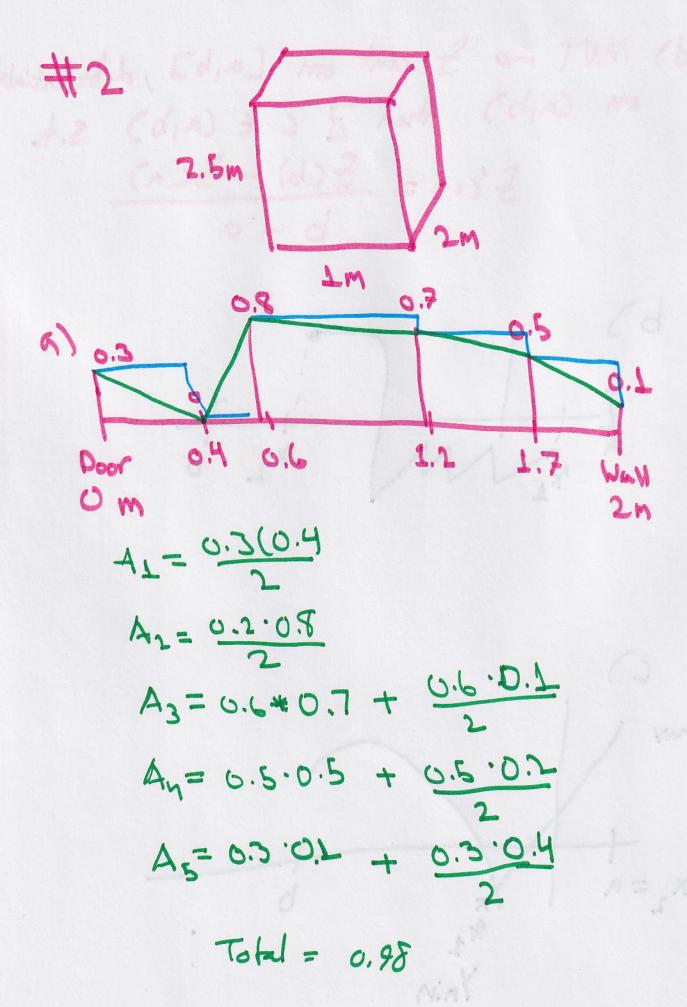
Sit. $\exists x_2 \text{ and } x_2 \text{ in } [a,b]$ Sit. $\exists (x_2) \leq f(x_0)$ $\exists (x_2) \geq f(x_0) \forall x \in [a,b]$ d) MVT -> & cont on [a,b], differentiable on ca,b) then I c & (a,b) s.t.

S'cos = S(b) - S(a)

b - a



 $x_2 = \alpha$ x_1 $x_2 = \alpha$ x_1 x_2 x_3 x_4 x_4 x_4 x_5



Rectangles

0.4x0.3 +0+ 0.8.0.6 +0.7.0.5+0.5.0.3

#3 (I) 2×4 + 8·4 = 24

2 6×4 + 4×4 = 32

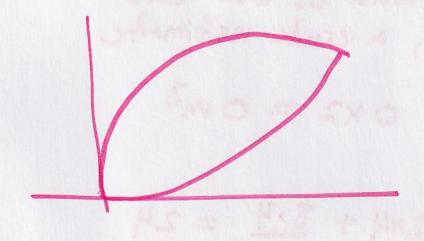
3 2岁 - 3 = 4.5

(4) 3×4 + T(2) = 12-24

#4 We partitioned each piece of the curve as if it were piecewisz continuono

-1 < 3 < 7 < 10 < 14

#5



W=1 2 1 2 2 2 1 30.5

 $G = 5 \neq 7 \neq 7.5 = 6.5 + 1.5 = 2$ W = 1 + 2 + 1 = 2 = 2 + 2 = 65

50.42 Actual

#6.)

Ue did it for computational Ease

Lut Baby Ko-a, XI, -.., Xn=B be a partition of [W, B]

