

continue first part (1)

(4)

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. from about organists,

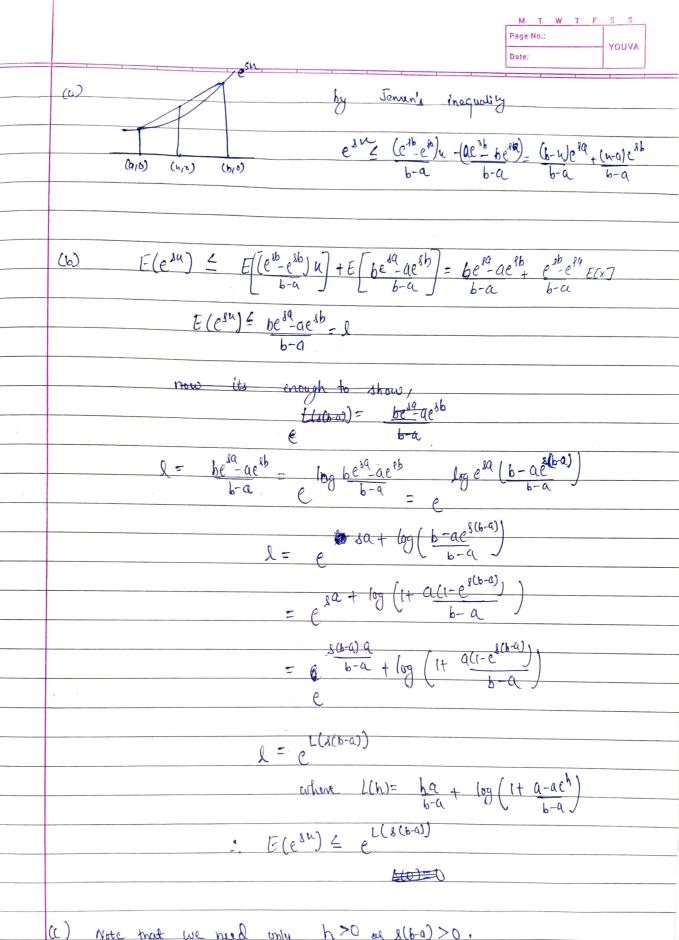
now, we note mat

if xi Elai, bi] , xz Elaz, bz] XI+X2 E GI+a2, bitb2]

sh & [ \( \sum\_{i=1}^{n} b\_{i} \)]

P(Sn-E(Sn)>+) \( \

1-e (261-201)2 = P(Sh-E(Sh)>+) = 1 for + 60



(c) Note that we need only h > 0 of g(b-a) > 0.

Now, dearly L(h) is continuous and differentiable.  $\frac{-aeh}{b-a} = \frac{aeh}{b-a}$   $\frac{-aeh}{b-a}$ 

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$$\frac{1}{(b-ae^{h})^{2}} - \frac{ae^{h}}{(b-ae^{h})^{2}} - \frac{ae^$$

for 4,4>0 4+4 > 2 July

$$\therefore be^{\frac{1}{2}-ae^{\frac{1}{2}}} \ge 2\sqrt{-ab}$$

(d) now, we have if 
$$f(u) \leq g(u) \in f(u) - g(u) \leq 0$$
  $\forall n > 0$  and  $f(u) - g(u) \leq 0$ 

now as L(0)=0,

: 
$$(10) - 0 \le 0$$
 (here  $g(k) = h^2$ )

at how = Jan-gow men given h'(u) =0, how =0 Then by Taylor's theorem I CECO, W) st