S Ho'(h/s-t/) f (t) Mt input: a, b, h, s -> mumbe J -> fruitin that I can St(a,b) midgt all Simplest use (=1 $S_{4}(ab) \rightarrow I(a,b,b,s) = S_{a+j-1}L$ $S_{4}(ab) \rightarrow I(a,b,b,s) = S_{a+j-1}L$ input a, b, h, s $\sum_{k=1}^{N} M_{o}'(h/s - a+i)$ = L&Sum (bessello, h& S E (arb) $\overline{L}(a,b,u,s) = {b \choose H'_{o}(u)s-t/d}$

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$$S \in [a,b]$$
 $C \in C^2(a,b)$

//

$$-\frac{1}{2}|h|$$
 $abs(s-a+(1;N)-\frac{1}{2})8h)$

m 16:1d

S E (arb) $I(a,b,u,s) = \int_{a}^{b} H'_{o}(u \mid s - t \mid) dt$ podul integration ?: Ho'(U|s-t1) = -1/n (U|s-t1)]

+ : Ho'(U|s-t1) - (

2(t1:=(1 , 1t151)

1 \tau \text{exp} (\frac{77-1}{71-k1} - \frac{1-77}{1-1k1})

\text{TI S t $\begin{array}{lll}
 & \text{Mille using weighted quadrine} \\
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 & -1 & |_{L} (h |_{$ 2 (150 (h/s-midpt1) Z (h/s- $\frac{i}{4} \int_{a}^{b} H_{o}'(h|s-t|) dt = \int_{a}^{b} \log(h|s-t|) \ln |l(t)| dt$ $\frac{i}{4} \int_{a}^{b} H_{o}'(h|s-t|) dt \left(\ln |l(a+(j-i)h)| + \frac{i}{4} \right) dt$ $\frac{i}{4} \int_{a}^{b} H_{o}'(h|s-t|) dt \left(\ln |l(a+(j-i)h)| + \frac{i}{4} \right) dt$

$$\frac{1}{2} + \int_{a}^{b} m \frac{2(t)dt}{2(a+(i-\frac{1}{2})h)}$$

 $\sum_{s=1}^{\infty} \left\{ \frac{\log(u(s-t))dt}{w(s)} \right\} dt \ln \left(\frac{a+(s-t)h}{(s-t)} \right) +$ $= (b-5) \log (h)$ - (a-s) (= (b-s) ly (h(s-b)) - (a-s) ly (h(s G(a) = (i) = (i)=(b-s) log(4(b-s)) - (a-s) log 4(x-s case (i.i.) a(s) by a(s) $dt = \begin{cases} s & \text{log}(u \mid s - t \mid) dt \\ s & \text{log}(u \mid s - t \mid) dt \end{cases} + \begin{cases} s & \text{log}(u \mid s - t \mid) dt \\ s & \text{log}(u \mid s - t \mid) dt \end{cases}$ (s) (s) (s) (s) (u) (s) (u) (s) (u) (u

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$$\frac{1}{3} = \frac{1}{3} \frac{$$

 $a = -\frac{1}{u} \int_{h}^{0} (s-a) \int_{h}^{0} (s-a)$ So integ m = (b-s) log h (b-s) - b+s + (s-= (b-1) log(h (b-5)) - (a-5) log(h (5in each case inlay at =

[(b-4) Cog (alos (4 (b-1))) - (a-1) Cog (c

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$$= \frac{u(\log u - 1)}{u}$$

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$$= \frac{u(\log u - 1)}{u}$$

$$= (b-s)(log h (b-s)-1)$$