HOMEWORK G  12. APROX. USING TRAPTICIONE RULE	16 APROX. USING TRAPIZOIDAL RULE
THE THEORY AND IN BLICKING INC.	
\( \int_{\sqrt{3}\sqrt{5}}^{5} \dots  n \cdot 5 \)	So zer by no 8
) 17 TY PY M1 J	
	<u> </u>
20 APPROX USING TRAPIZODAL RULE. DETERMINE UPPER BOUND FOR THE ERROR APPOX OF	2b Approx using trapizodal rule. Determine upper bound for the error appox of
E1 LASTLY STATE IF OVER OR UNDER APROX	E1. CASTLY, STATE IF OVER OR UNDER APROX
∫ <sub>t</sub> × qx ved	(1x+5dx No 10 Tn=20) (5+216+217+218+219+210+2111+2112+2113+2114+2113+2113+2116+2111+21114+2113+2113+2116+21114+2113+2113+2113+2113+2113+2113+211
	$\Delta_{x} = \frac{10}{10} \rightarrow \Omega_{x} = 1$
	Xo= O Xg=8
	$X_{q} = 1$ $X_{q} = 9$ $[f'(x)] = \frac{1}{4}(x+5)^{\frac{1}{2}}$
	$\chi_{z=2} \chi_{0^{2} 0} \qquad f(x)^{2} (x+5)^{2} \qquad \chi_{0^{2} 0} \chi_{0^{2} 0} \chi_{0^{2} 0} \qquad \chi_{0^{2} 0} \chi$
	Xy= 4 f'(x)= \frac{1}{2}(x+5)^2 BECAUSE IT IS ALWAYS NEW.
	X= 5 OUT FUNCTION IS DECREASING
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	1 (x) = 3 (x+5) = 2 = 15 = 2 = 1
	7 35 2005
	$T_n = \frac{1}{2} \Delta_n \left( \frac{1}{2} (x_0) + \frac{1}{2} (x_1) + \frac{1}{2} (x_1) + \dots + \frac{1}{2} (x_{n-1}) + \frac{1}{2} (x_n) \right) = \frac{1}{2} \left( \frac{1}{22007} \right) \left( \frac{(0-0)^3}{12(0)^7} \right)^{-3}$
	En= M(b-a) M= Max (f"(x)) on (a,b) = En= 1/2   En= 1/2
	EN- 12 1/2 1/2 1/2 1/2 01 (2 / 0) (10.512 12 1/2 5/2)
2) APPROX VSING TRAFIZODAL RULE. DETERMINE VPTER BOUND FOR THE ERROR AMED X OF E1. CASTLY, STATE IF OVER OR UNDER APROX.	3 4 SWIMMAG POOL IS 25FF WIDE, 40FF LONG, TABLE BELOW SHOWS DEPTH OF TOOL IN Y
CI. CASILT, SIMILE IF OVER OR UNDER APROX	A INTERVALS, USE TRAPTICIDAL TOLE WITH N=10 to ESTIMATE VOLUME OF THE POOL.
Source) dx n= 10	N= 525. hardx
THINGS TO MEMORIZE	
THINGS TO MEMORIZE  TRAPIZOIDAL RULE	8
TRAPIZOIDAL ROLE ERROR BOUNDS	8 la
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TRAPIZOIDAL ROLE ERROR BOUNDS	8 la
TRAPIZOIDAL ROLE ERROR BOUNDS	4 8 8 12 16 20 24 28
TRAPIZOIDAL ROLE ERROR BOUNDS	4 8 8 12 16 20 20 24 25 25 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26
TRAPIZOIDAL ROLE ERROR BOUNDS	4 8 1/2 16 20 24 24 28 36
TRAPIZOIDAL ROLE ERROR BOUNDS	4 8 8 12 16 20 20 24 25 25 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26
TRAPIZOIDAL ROLE ERROR BOUNDS	4 8 1/2 16 20 24 24 28 36
TRAPIZOIDAL ROLE ERROR BOUNDS	4 8 1/2 16 20 24 24 28 36
TRAPIZOIDAL ROLE ERROR BOUNDS	4 8 1/2 16 20 24 24 28 36
TRAPIZOIDAL ROLE ERROR BOUNDS	4 8 1/2 16 20 24 24 28 36
TRAPIZOIDAL ROLE ERROR BOUNDS	4 8 1/2 16 20 24 24 28 36