1/2

n	h	μ_n	$y(1) - \mu_n = \alpha$	α / h_1
1	0.10	29.190	-23.75	-2.375×10^5
2	0.10	35.43	-29.99	-2.999×10^5
1	0.05	1.105	4.332	6.931×10^5
2	0.05	1.219	4.218	6.748×10^5
1	0.001			
2	0.001			

$f(y) = 2y$

E

BUT THE VALUES ARE ALRE

* ACCIDENTALLY ERASED WORK FOR $h = 0.10$

$h = (0.001)$

$\mu_1 = \mu_0 + \frac{h}{6}(k_1 + 2k_2 + 2k_3 + \dots + k_4)$

$\rightarrow k_1 = f(\mu_0) = \boxed{2.1 = k_1}$

$k_2 = f\left(\mu_0 + \frac{h}{2} k_1\right)$

$= 2 \cdot \left(1 + \frac{0.001}{2} 2\right)$,

$\boxed{k_2 = 2.002}$

$y(1) - \mu_1 = 2e - 1.105$

$= 4.332 = \alpha'$

$y(1) - \mu_2 = 2e - 1.219$

$= 4.218 = \beta$

$\frac{\alpha'}{h^4} = \frac{4.332}{0.05^4} = 6.931 \times 10^5$

$\frac{\beta}{h^4} = \frac{4.218}{0.05^4} = 6.748 \times 10^5$