

n	h	μ_n	$y(1) - \mu_n = \alpha$	α/h
1	0.10	29.190	-23.75	-23.75×10^5
2	0.10	35.43	-29.99	-29.99×10^5
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			

DUT THE
VALUES ARE
HERE

* ACCIDENTALLY ERASED WORK
FOR $h = 0.10$

$$h = (0.001)$$

$$k_2 = f(\mu_1 + \frac{h}{2} k_2)$$

$$= 2 \cdot (1.002 + \frac{0.001}{2} \cdot 2.006)$$

$$k_3 = 2.006$$

$$k_4 = f(\mu_1 + h k_3)$$

$$= 2 \cdot (1.002 + 0.001 \cdot 2.006)$$

$$k_4 = 2.008$$

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

$$= 4.332 = \alpha'$$

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

$$= 4.218 = \beta$$

$$\frac{\alpha'}{h^4}$$

$$= \frac{4.332}{0.05^4}$$

$$= 6.931 \times 10^5$$

$$\frac{\beta}{h^4}$$

$$= \frac{4.218}{0.05^4}$$

$$= 6.748 \times 10^5$$