$$\oint (x) = \left(\frac{1}{3}\right)^{x}$$

$$\oint (2) = \left(\frac{1}{3}\right)^{2} = \frac{1}{9} = 0, 11$$

(2)
$$f(x) = 2^{2x}$$

 $f(-1) = 2^{2(-1)} = 2^{-2} = \frac{1}{2^2} = \frac{1}{4} = 0.25$

(3)
$$g(x) = e^{-x}$$

 $g(i) = e^{-1} = \frac{1}{e} = 0.37$

4 Diketchui:
$$X \rightarrow 2x$$
 ralam $t = 1$ jam maka $X(t) = 2^t$

Saat $t = 0$, $x(0) = 2^c = 1$

t=0=10.00

$$f(1) = \frac{1}{1+e^{-1}} = \frac{1}{1+\frac{1}{e}} = \frac{1}{1+0.37} = \frac{1}{1.37} = 0.73$$

$$\Delta X = \frac{b-q}{N} = \frac{1-(-1)}{4} = \frac{1}{2}$$

Menggunakan penjumbahan trapesinin;

$$S(4) = \Delta \times \left(\underbrace{f(x_0) + f(x_1)}_{2} \right) + \Delta \times \left(\underbrace{f(x_1) + f(x_2)}_{2} \right)$$

$$+\Delta X$$
 $(f(x_2)+f(x_3))+\Delta X$ $(f(x_3)+f(x_4))$

$$= \frac{\Delta x}{2} \left(f(x_0) + 2 f(x_1) + 2 f(x_2) + 2 f(x_3) f(x_3) \right)$$

Luas area di benuch laura
$$f(x) = \Delta x \left(f(x_0) + 2 f(x_1) + 2 f(x_2) + 2 f(x_3) + f(x_4) \right)$$
di interval [-1,1]

$$f(x_0)=f(-1)=4-(3)(-1)-(-1)^2=6$$

$$= \frac{\Delta \times \left(\{(-1) + 2 \{(0) + 2 ((0) +$$

$$=\frac{1/2}{2}\left(6+2\left(5.25\right)+2\left(4\right)+2\left(2.25\right)+0\right)$$

$$(0)$$
 $g(x)=(x-1)^3$

$$\Delta X = \frac{b-a}{N} = \frac{3-1}{4} = \frac{1}{2}$$

Seperti soal (9), I now drea di banvah kunva dengan penjamlahan traposi cum:

dimana:

f(x) = g(x)

$$9(X_0) = 9(1) = (1-1)^3 = 0$$

FLASEL FINA

$$9(x_1) = 9(105) = (105 - 1)^3 = 0.125$$

$$9(x_2) = g(2) = (2-1)^3 = 1$$

$$9(x_3) = 9(2.5) = (2.5-1)^3 = 3.375$$

$$9(x_4)_2 g(3) = (3-1)^3 = 0$$