Cólcular
$$I = \int_{0}^{a_{i}s} f(x) dx$$

/×	\$(x)	J = { (c) (b - a)
0,0	1,0	
0,2	1,7408	= 1,2408(0,4-0) + 2,0333 (0,8-0,4)
0,4	1,5735	= 1,2408 × 0,4 + 2,0333 × 0,4
0,6	2,0333	= 0,49632 + 0,81332
8,0	7,6965	I = 1,30964

austão Z:

$$I = \int_{0}^{4} (3x^{3} - 3x + 1) dx = \frac{3}{4}x^{4} - \frac{3x^{2}}{2} + x \Big|_{0}^{4}$$

$$I = \frac{h}{2} \left[1 + 2 \times 1 + 2 \times 19 + 2 \times 73 + 181 \right]$$

Questão 3

* Trapejan

$$I = \frac{Q_1!}{2} \left[1 + 2(1,10517) + 2(1,22140) + 2(1,34986) + 2(1,49182) + 2(1,64872) + 2(1,648$$

* Simpouns

$$I = \frac{91}{3} \left[1 + 41(1,10517 + 1,34986 + 1,64872 + 2,01375 + 2,43960) + 2(1,22140 + 1,49187 + 1,82212 + 2,22554) + 2,71828 \right]$$

austria 4

$$I = \int_{0}^{10} e^{-x} dx = -e^{-x} \Big|_{0}^{10} = -e^{-10} + 1 = 0,999854601$$

$$\int_{1}^{1} J(t) dt = C_{1} J(b_{1}) + C_{1} J(t_{1})$$
 $\begin{cases} c_{1} = C_{1} = 1 \\ t_{1} = -t_{1} = \sqrt{\frac{1}{3}} \end{cases}$

$$\int f(t) = \frac{b-a}{2} \times \left\{ \left(\frac{b-at}{3} + \frac{b+a}{2} \right) \right\}$$