

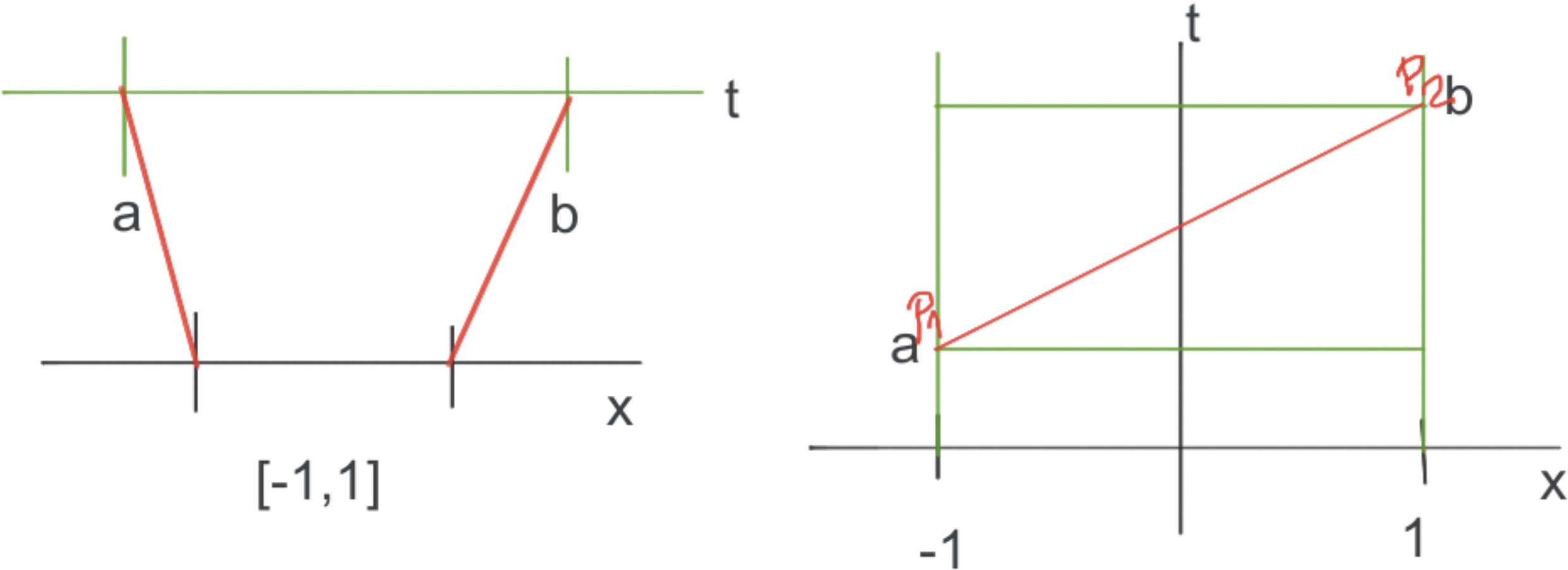
$f(x)$ en $[-1, 1]$ como:

$$f(x) = g\left(\frac{(b+a) + x(b-a)}{2}\right), \quad -1 \leq x \leq 1$$

donde

$$t = \frac{(b+a) + x(b-a)}{2}$$

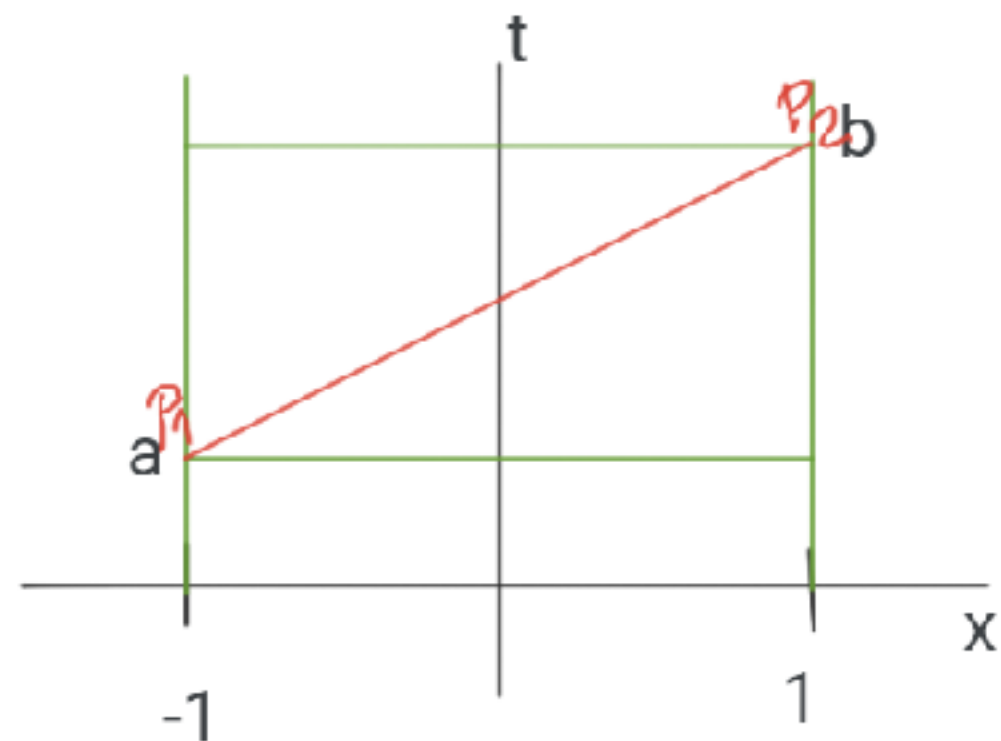
representa un cambio lineal de variable que permite aproximar $f(x)$ en $[-1, 1]$.



$\alpha\beta$

$\alpha x + \beta = t$

p1	-1	a
p2	1	b



$$\alpha x + \beta = t$$

p1	-1	a
p2	1	b

$\alpha\beta$

$$p1) -\alpha + \beta = a$$

$$p2) \alpha + \beta = b$$

$$\beta = a + \alpha$$

$$\alpha + a + \alpha = b$$

$$2\alpha = b - a$$

$$\alpha = (b - a)/2$$

$$\beta = a + (b - a)/2$$

$$\beta = (b + a)/2$$

$$t = \frac{(b + a) + x(b - a)}{2}$$

$$(b - a)/2 \cdot x + (b + a)/2 = t$$