a. prepara

$$\tan(x) = \frac{x}{x-1}$$
$$\tan(x) - \frac{x}{x-1} = 0$$

$$f(x) = tan(x) - x/(x-1)$$

??

$$\frac{\sin x}{\cos x} = \frac{x}{x-1}$$
$$\sin(x)(x-1) = \cos x$$
$$\sin(x)(x-1) - \cos x = 0$$

$$f(x) = \sin(x) * (x-1) - \cos(x)$$

?? ?? ??

b.

$$a = -0.6$$

$$b = -0.5$$

$$a0 = a$$

$$b0 = b$$

$$c0 = (a0+b0)/2$$

$$a1 = a0$$

$$b1 = c0$$

$$c1 = (a1+b1)/2$$

$$a2 = c1$$

$$b2 = b1$$

$$c2 = (a2+b2)/2$$

$$a3 = a2$$

$$b3 = c2$$

$$c3 = (a3+b3)/2$$

$$c_0 = ??$$

$$f(a_0), f(c_0), f(b_0) = ??, ??, ??$$

$$c_1 = ??$$

$$f(a_1), f(c_1), f(b_1) = ??, ??, ??$$

$$c_2 = ??$$

$$f(a_2), f(c_2), f(b_2) = ??, ??, ??$$

$$c_3 = ??$$

$$f(a_3), f(c_3), f(b_3) = ??, ??, ??$$

c.

Cota de error

$$N > \frac{\log(\frac{b-a}{\varepsilon})}{\log 2} - 1$$

$$N = ??$$

$$N = ??$$

$$c_N = ??$$