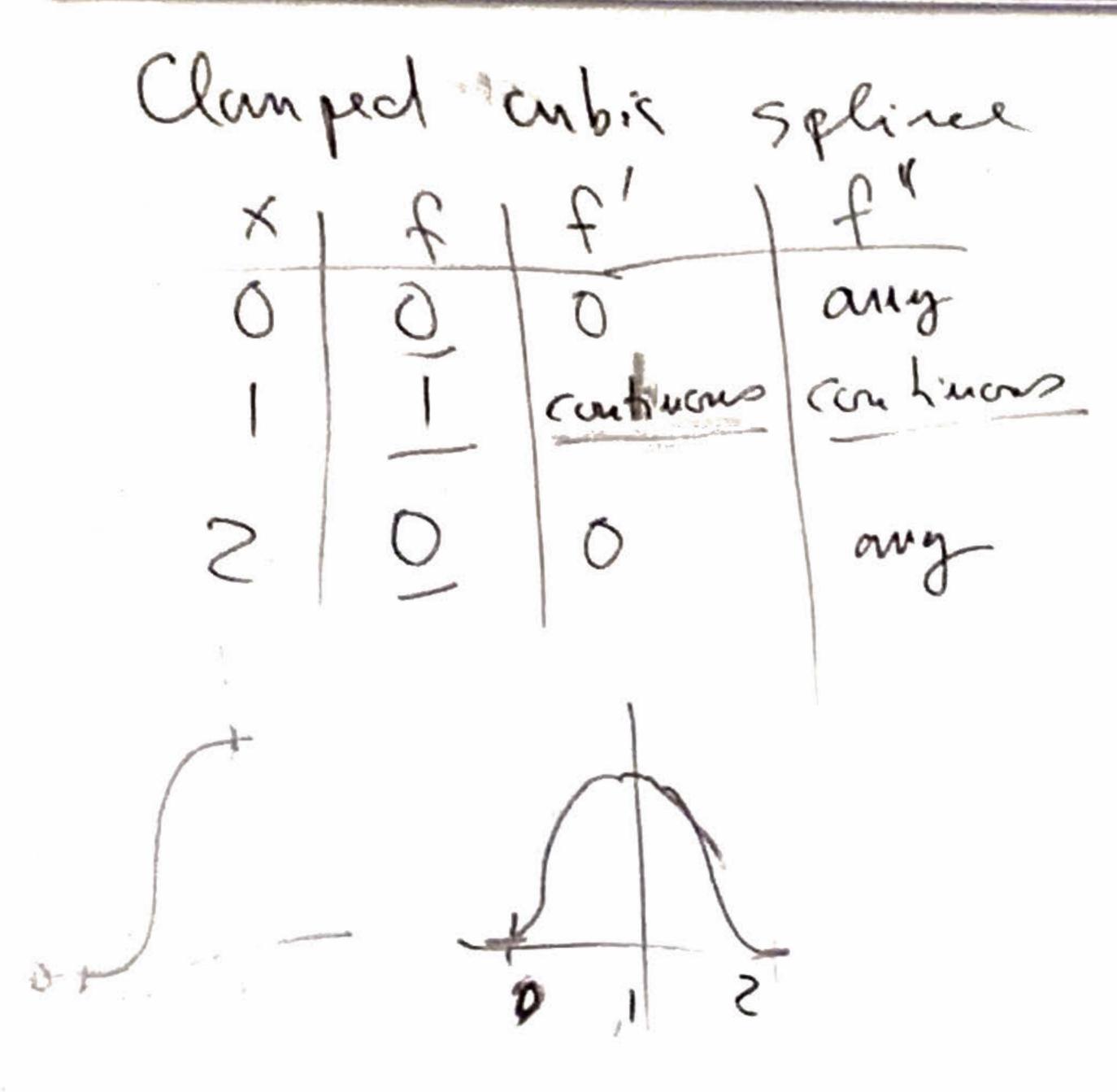
m "economia 65%

Piecewice Hermite interpolation Natural cubic. spling t, t, con p.monz $t_{11}(1) = t_{11}(3) = 0$ because: satiefies contituons $p \in P_3 = p(1) = 1 p(1) = 0 p(2) = 1 p'(2) = 1$ matuta cubic splim is umqui P(x) = 1(x-1) - (x-1) + 0(x-1) # 1 $p(x) = a_3(x-1)^2 + a_7(x-1)^2 + a_1(x-1) + a_6 + a+x=1$ $\eta_1'(1) = 3a_7(x-1)^2 + Ra_2(x-1) + \alpha_1 = \alpha_1 = 0$ at x = 1 $p_1(z) = a_3 \left[\frac{3}{7} + a_2 \right]^2 + a_3 \left[\frac{1}{7} + a_3 \right]^2 + a_3 = 0$ 0,=-



$$f(x) = a_{1}(x-1)^{3} + a_{2}(x-1)^{2} + a_{1}(x-1) + a_{0}(x-1)^{2} + a_{1}(x-1) + a_{0}(x-1)^{2} + a_{1}(x-1) + a_{0}(x-1)^{2} + a_{1}(x-1) + a_{0}(x-1) + a_$$

79 Sout squares for
$$y=ax+b$$
 given $\frac{x}{y} = \frac{3}{100}$
 $(a + b) - 1$
 $(a + b$

 $-\frac{1}{2}\left(\begin{bmatrix} 14 & 6 \\ 6 & 3 \end{bmatrix}\begin{bmatrix} 6 \\ 6 \end{bmatrix} = \begin{bmatrix} 4 \\ 2 \end{bmatrix}\right)$

14a + 6b = 4 16a + 6b = 4 14a + 6b = 4 -1a + 6b = 6 -1a + 6b = 0 -1a + 6b = 0 -1a + 6b = 0

[9,6]=[-1,1] $x_1 = a + \sqrt{\frac{5}{2}}(b-a)$ $x_2 = a + \sqrt{\frac{5}{5}+1}(b-a)$ $x_1 = -1 + \frac{3}{3} - \sqrt{5}$ $X^{S} = 1 + \frac{2}{3-12}(-5)$ = 1 + (3-15) = -2 + 15

> $X_2 = 9 + \sqrt{5} - \frac{1}{2}(b-9)$ $= -1 + \sqrt{5} - \frac{1}{2} = -2 + \sqrt{5}$