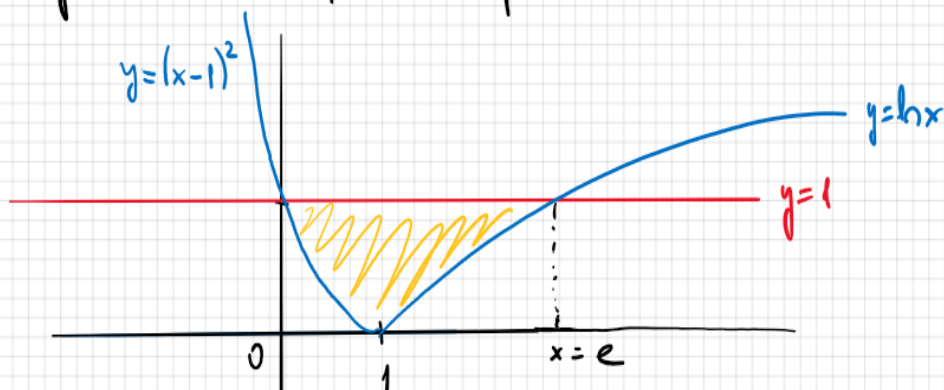


[26] Hay que esbozar la representación gráfica
 $y = (x-1)^2$ es la parábola $y = x^2 - 2x + 1$. Con vértice $(1, 0)$



$$\begin{cases} y = 1 \\ y = (x-1)^2 \end{cases} \Rightarrow x = 0 \quad \begin{cases} y = 1 \\ y = \ln x \end{cases} \Rightarrow x = e$$

$$\text{ÁREA} = \int_0^e 1 - f(x) dx = \int_0^1 1 - (x-1)^2 dx + \int_1^e 1 - \ln x dx$$

$$\int \ln x dx = x \ln x - \int dx = x \ln x - x + C$$

$$\begin{aligned} u = \ln x &\rightarrow du = \frac{1}{x} dx \\ dv = dx &\rightarrow v = x \end{aligned}$$

$$\text{ÁREA} = \left[x - \frac{(x-1)^3}{3} \right]_0^1 + \left[x - x \ln x + x \right]_1^e = 1 - 0 - \left(0 - \frac{(-1)}{3} \right) + e - e + e - (1 - 0 + 1) =$$

$$= 1 - \frac{1}{3} + e - 2 = \frac{3e-4}{3}$$