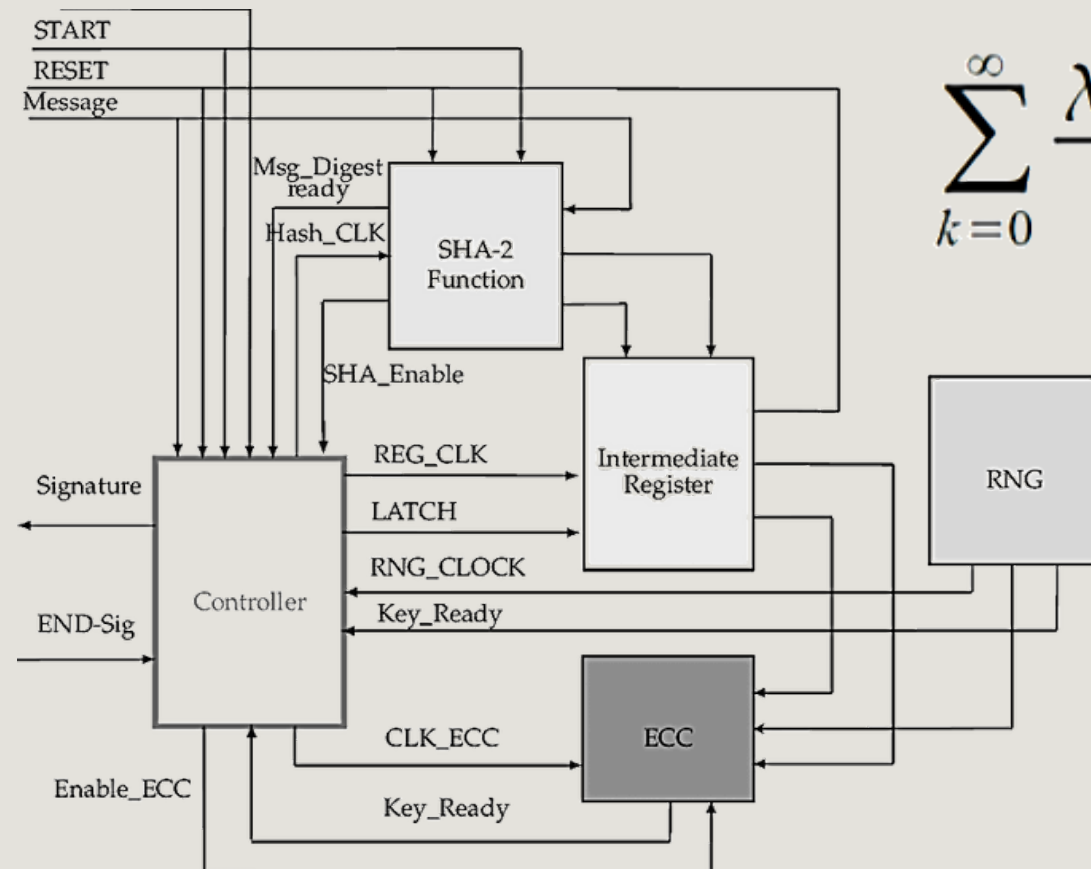
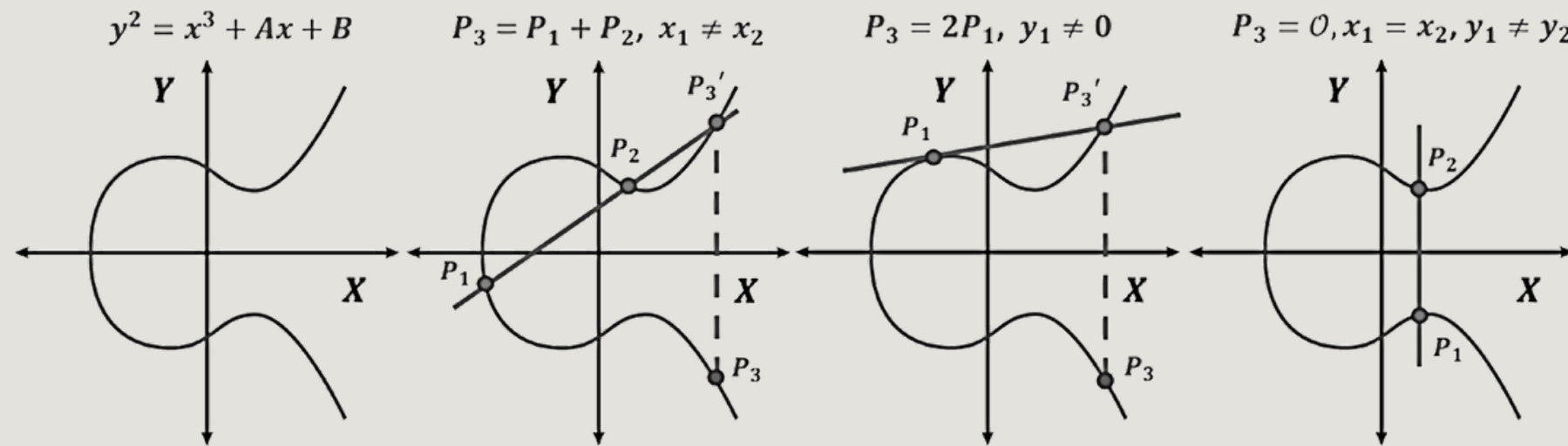
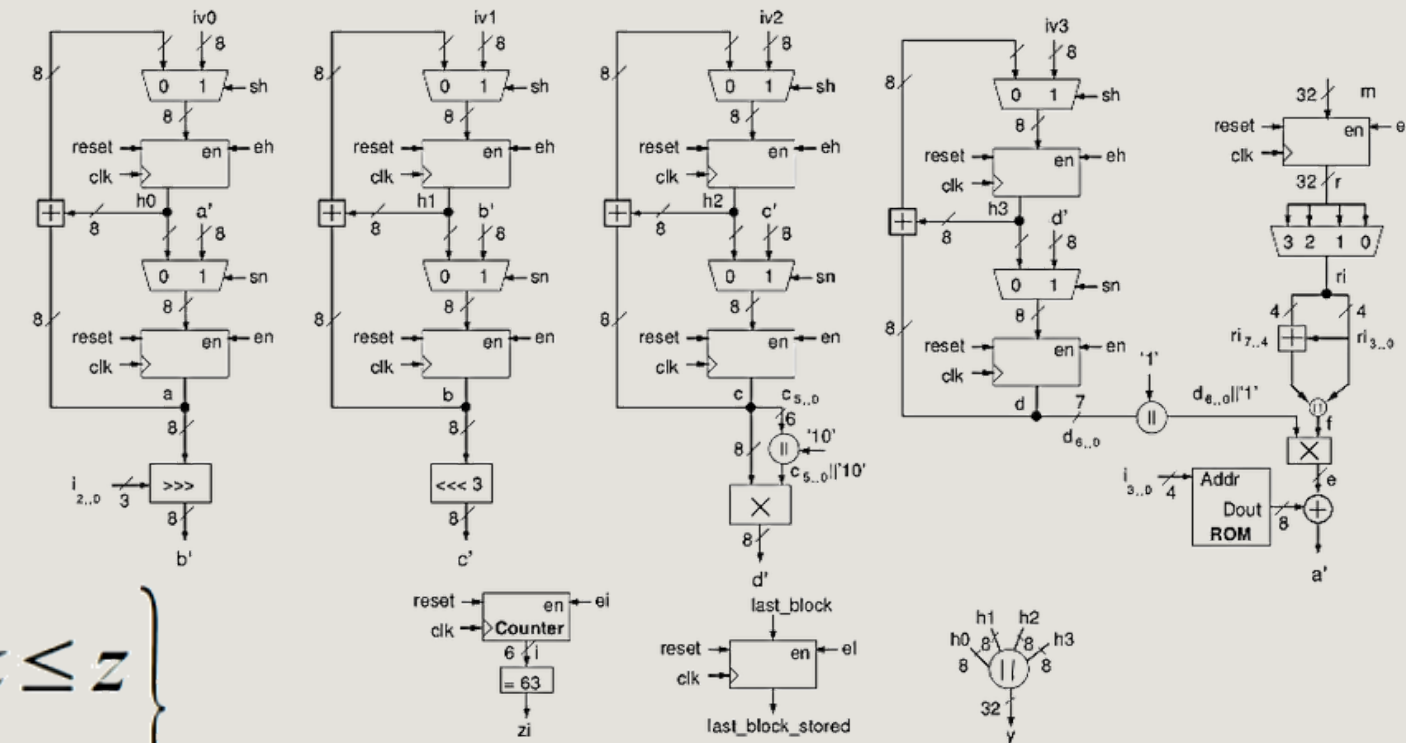


# Disclaimer 2 : O que não veremos



$$\sum_{k=0}^{\infty} \frac{\lambda^k e^{-\lambda}}{k!} \begin{cases} (q/p)^{(z-k)} & \text{if } k \leq z \\ 1 & \text{if } k > z \end{cases}$$

$$\sum_{i=0}^{32} 210,000 \frac{50}{2^i}$$



## Algorithm 6 Split-ECDSA (SECDSDA) signature generation

Input: message  $M$ , SCE-key  $u \in \mathbb{F}_q^*$ , PIN-key  $\sigma \in \mathbb{F}_q^*$

Output signature  $(r, s)$ .

- 1: Compute  $\mathcal{H}(M)$  and convert this to an integer  $e$ .
- 2: Compute  $e' = \sigma^{-1} \cdot e \bmod q$
- 3: Select random  $k \in \{1, \dots, q-1\}$
- 4: Compute  $kG = (x, y)$  and convert  $x$  to integer  $\bar{x}$
- 5: Compute  $r = \bar{x} \bmod q$ . If  $r = 0$  go to Line 1
- 6: If  $r \bmod q = 0$  then go to Line 1
- 7: Compute  $s_0 = k^{-1}(e' + u \cdot r) \bmod q$ . If  $s_0 = 0$  go to Line 1
- 8: Compute  $s = \sigma \cdot s_0 \bmod q$
- 9: Return  $(r, s)$

