Tarea 5

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EJERCICIO 1 Sea $M = (Q, \Sigma)$

Sea $M = (Q, \Sigma, \delta, q_0, F)$ un AFD. Demuestra que la relación \approx (Definición 2) es una relación de equivalencia en el conjunto de estados Q de M.

P $\simeq Q \leftarrow 7 ((\forall x \in \mathcal{Z}^*) (\hat{s}(P_i x)) \in F \leftarrow (\hat{s}(q_i x) \in F))$

.
$$12e+1c \times iva$$
.

(8 (4, x) $c \in \mathbb{Z}$) (8 (1) $x \in \mathbb{Z}$)

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se comple porque & esecuismo

Sime frica
(1) = 7 (
$$\forall x \in \mathcal{E}^*$$
, \mathcal{E}^*

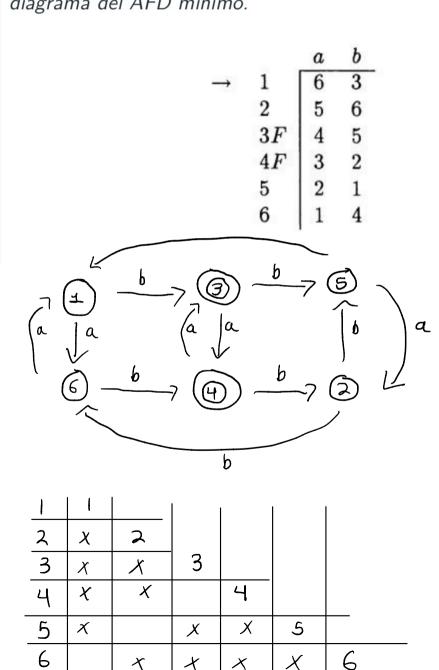
 $\frac{1}{2} \frac{\partial}{\partial x} (E_1 x) \in F$ Ahora $\frac{\partial}{\partial x} (E_1 x) \in F$ $\frac{\partial}{\partial x} (E_1 x) \in F$ $\frac{\partial}{\partial x} (E_1 x) \in F$ $\frac{\partial}{\partial x} (E_1 x) \in F$

(3) P(t, v) Ef y P(P, x) EF

 $\exists \beta c \rho_{,} \chi) \in F$ Y(ono) $\chi G S^{*} = S q_{,} b_{,} t_{,} q_{,} t_{,} t_{,} q_{,} t_{,} q_{,} t_{,} q_{,} t_{,} q_{,} t_{,} q_{,} t_{,} t_{,} q_{,} t_{,} q_{,} t_{,} q_{,} t_{,} t_{,} q_{,} t_{,} t_{,} q_{,} t_{,} t_{,} q_{,} t_{,} q_{,} t_{,} q_{,} t_{,} t_{,} q_{,} t_{,} t_{,} q_{,} t_{,} q_{,}$

EJERCICIO 2

Minimiza el AFD indicado en la tabla. Especifica claramente a que clase de equivalencia corresponde cada estado y dibuja el diagrama del AFD mínimo.



$$(1.6) \stackrel{\wedge}{\sim} (6.2)$$

$$(1.6) \stackrel{\wedge}{\sim} (6.1)$$

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$$(1.6) \stackrel{\wedge}{\sim} (6.1)$$

$$(2.5) \stackrel{\wedge}{\sim} (5.2)$$

$$(6.1) \stackrel{(5.2)}{\sim} (5.2)$$

$$(4.3) \stackrel{\wedge}{\sim} (6.1)$$

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$$(5.2) \stackrel{\wedge}{\sim} (4.3)$$

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