Ejercicio 3.1

Resuelve los siguiente ejercicios:

Exercise 3.3.2: Describe the languages denoted by the following regular expressions:

- a) $\mathbf{a}(\mathbf{a}|\mathbf{b})^*\mathbf{a}$. Una cadena de multiples a's yb's que siempre empieza con una a y termina con una a.
- b) $((\epsilon|\mathbf{a})\mathbf{b}^*)^*$. Una cadena de as y \mathbf{b} s
- c) $(\mathbf{a}|\mathbf{b})^*\mathbf{a}(\mathbf{a}|\mathbf{b})(\mathbf{a}|\mathbf{b}).$ Una cadena de \cancel{a} y \cancel{b} 5 donde hay una a' dos posiciones antes del final
- d) a*ba*ba*ba*.cadena que contiene exactamente 3 65
- $!! e) (aa|bb)^*((ab|ba)(aa|bb)^*(ab|ba)(aa|bb)^*)^*.$

Incisos a, b, c

Ejercicio 3.1

Exercise 3.3.5: Write regular definitions for the following languages:

- a) All strings of lowercase letters that contain the five vowels in order. Fundo-contain the five vowels in order. The following the five vowels in order.

 - c) Comments, consisting of a string surrounded by /* and */, without an intervening */, unless it is inside double-quotes (").

Incisos a, b

Ejercicio 3.1

Exercise 3.3.6: Write character classes for the following sets of characters:

- a) The first ten letters (up to "j") in either upper or lower case. [A-Ja-J]
- b) The lowercase consonants.
- c) The "digits" in a hexadecimal number (choose either upper or lower case for the "digits" above 9). [0-9 a-f]
- d) The characters that can appear at the end of a legitimate English sentence (e.g., exclamation point).

Incisos a, c

