PS06

January 22, 2018

a. Proof #1:

b. Proof #2:

c. Proof #3: This proof is in error because the closure rule of intersection is not bidirectional. Using closure to prove that a language is regular can only be done when the language in question is part of a closure expression and both its pair AND the resulting languages are regular.
Ex: B is proven regular in this situation: A and C are regular AND $A \cap B = C$.