Problem 1: Basics

Please circle True or False for the following statements:

DFA's can contain epsilon transitions  True  False
All DFA's are NFA's  True  False
All NFA's can be converted to Regex  True  False

Problem 2: NFA to DFA

Convert the following NFA to a DFA. Square/circle your final DFA.

![Diagram of NFA and DFA conversion process]
Problem 3: NFA and Regex

(a) What Regex corresponds exactly to the following NFA? (Only circle the regex that best matches the NFA)

- (abba)*
- (ab)+
- (ba)(ba)*
- abba
- (ab|ba)*

(b) Which of the following strings are accepted by the NFA? (You may choose more than one answer)

- Empty String
- a
- abba
- baabb
- bba

(c) Convert the following Regex to NFA: (a|b)*c