Finite State Machines (FSMs)

**NAME:**



1. What regular expression corresponds to the NFA above?

**[2 pts] ANSWER**:



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**[2 pts] ANSWER**:

What regular expression corresponds to the DFA to the right?



**[2 pts] ANSWER:**



**[2 pts] ANSWER:**



**[2 pts] ANSWER:**



**[2 pts] ANSWER:**

Provide a NFA for the following:

S 🡪 ε

S 🡪 xX

S 🡪 yY

Y 🡪 yY

Y 🡪 ε

X 🡪 xX

X 🡪 ε

Here some shapes you can copy/paste to help you get started.

x,y

**[3 pts] ANSWER:**