Finite State Machines (FSMs)

**NAME:**

A close up of a device

Description automatically generated

1. What regular expression corresponds to the NFA above?

**[2 pts] ANSWER**:

A picture containing clock

Description automatically generated

1. What regular expression corresponds to the NFA above?

**[2 pts] ANSWER**:

What regular expression corresponds to the DFA to the right?

A drawing of a person

Description automatically generated

**[2 pts] ANSWER:**

A drawing of a person

Description automatically generated

**[2 pts] ANSWER:**

A drawing of a person

Description automatically generated

**[2 pts] ANSWER:**

A close up of a clock

Description automatically generated

**[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:**