

Open book and notes.

**Problem** Draw the diagram for a finite state machine which accepts exactly the following set of strings:  $\{axxb, ayb\}$ .

**Solution**

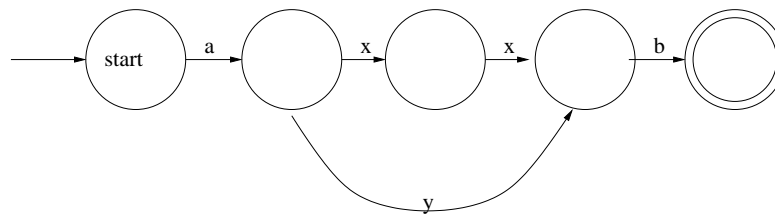


Figure 1: Finite state machine that accepts  $\{axxb, ayb\}$