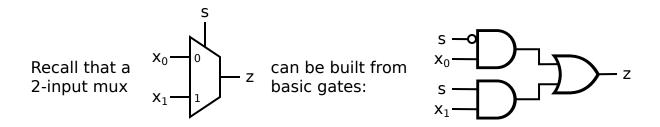
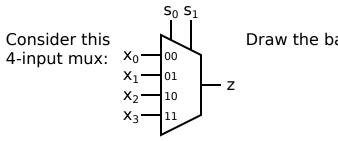
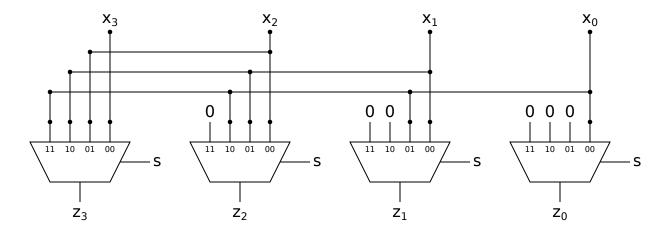
Name:	Computing ID:





Draw the basic gates needed to build it:

The following circuit implements a 4-bit left-shift, z = x << s. Dots are used to show where wires join as opposed to crossing over each other without touching.



Complete the following diagram to implement sign-extending right-shift, z = x >> s. Use dots, etc, similarly to the example diagram above.

