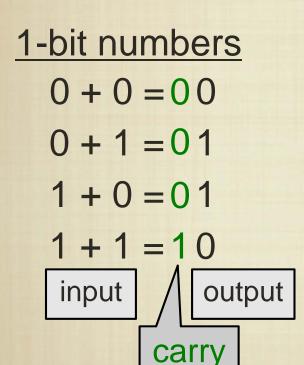
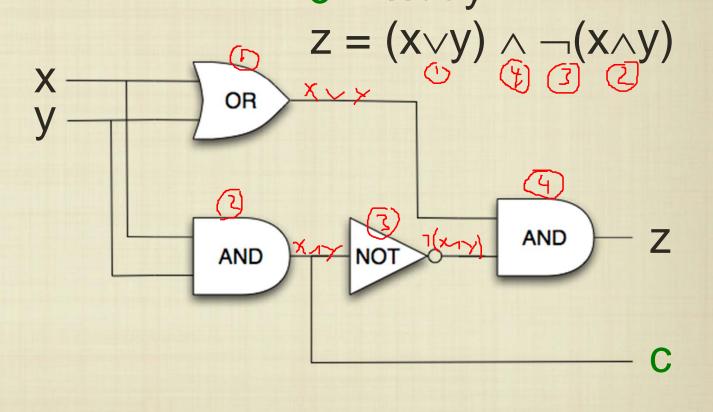
Circuits and Boolean Logic

What does an adding circuit look like? Let's consider adding $C = X \times V$

in binary:





A one-bit adder needs 4 gates. How do we add numbers with more bits?