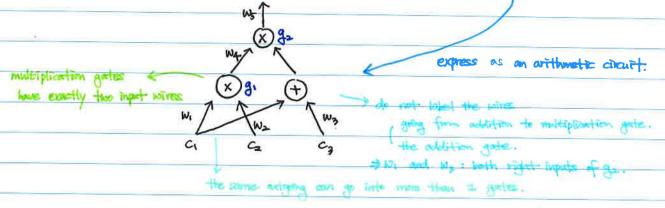
Example.

Suppose Alice worts to prove to Bob she knows $q.c_2.c_3 \in \mathbb{Z}_p^*$ s.t. $(q.c_2) \cdot (c_1 + c_3) = 7$.



For our circuit, a legal assignment is of the form: (G, \dots, G_5) where $G = G \cdot G_2$

C5 = C4. (atc2).

... what Alice wounts to prove is that she knows a legal assignment $(C_1,...,C_5)$ s.t. $C_5=7$

Suppose g, is associated with 1 ettp and go with 2 ettp.

Then, $\pm (x) = (x-1)(x-2)$.

$$V_{1}(g_{1}) = 1$$
 $V_{1}(g_{2}) = 0$
 $W_{2}(g_{1}) = 0$
 $W_{2}(g_{2}) = 0$
 $W_{3}(g_{1}) = 0$
 $W_{4}(g_{2}) = 0$
 $W_{5}(g_{1}) = 0$
 $W_{6}(g_{2}) = 0$
 $W_{7}(g_{2}) = 0$
 $W_{8}(g_{2}) = 0$

$$y_1(g_1) = 0$$
 $y_2(g_2) = 0$
 $y_3(g_1) = 0$ $y_3(g_2) = 0$
 $y_4(g_1) = 1$ $y_4(g_2) = 0$ $\Rightarrow v_1(x) = w_2(x) = y_4(x) = 2-x$
 $y_5(g_1) = 0$ $y_5(g_2) = 1$

Given fixed values (a,..., Co), we use them as coefficients to define V, W. Y. P.