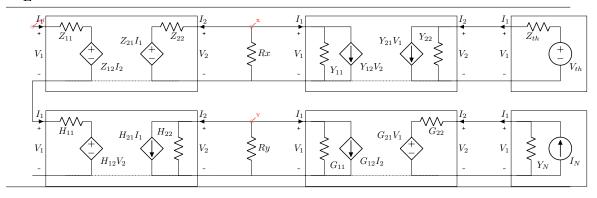
All default Quadripoles and Thevenin/Norton.

\LaTeX Code:

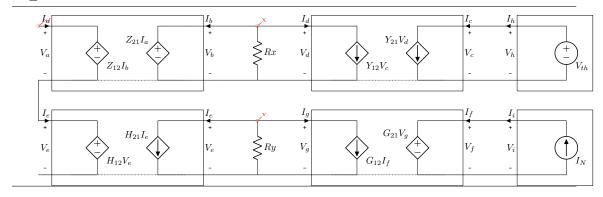
```
1 \resizebox{\textwidth}{!}{
2 \begin{tikzpicture}
3 \draw (0,0) \coord(ref) node[Quad Z,anchor=1+](Qz1){}
4 (Qz1.2+) -- ++(1.5,0) \coord(X) -- ++(1.5,0) node[Quad Y,anchor=1+](Qy1){}
5 (Qy1.2+) -- ++(1,0) node[Thevenin,anchor=1+](th1){}
6 (Qz1.1-) -- ++(0,-1.5) node[Quad H,anchor=1+](Qh1){}
7 (Qh1.2+) -- ++(1.5,0) \coord(Y) -- ++(1.5,0) node[Quad G,anchor=1+](Qg1){}
8 (Qg1.2+) -- ++(1,0) node[Norton,anchor=1+](nr1){}
9 (Qz1.2-) -- (Qy1.1-) (Qy1.2-) -- (th1.1-)
10 (Qh1.2-) -- (Qg1.1-) (Qg1.2-) -- (nr1.1-)
11 ;
12 \draw (X) to[R=$Rx$] (X |- Qz1.2-)
13    (Y) to[R=$Ry$] (Y |- Qh1.2-)
14    ;
16 \end{tikzpicture}
16 }
```

\LaTeX Result:



The same demo but with all parameter 11 and 22 zeroed, and changing the "control sources" LaTeX Code:

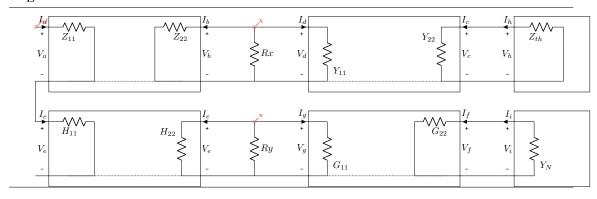
\LaTeX Result:



Now with the 12 and 21 parameters zeroed, normal form:

LATEX Code:

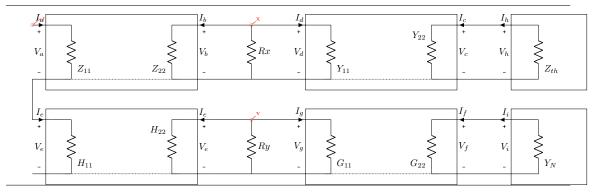
\LaTeX Result:



Same as last one, but with an alternate form:

LATEX Code:

\LaTeX Result:



And a final one, no zeroed parameters, but all "non default", some impedances as zig-zag,

others as generic, per quadripole

LATEX Code:

```
1 \resizebox{\textwidth}{!}{
2 \begin{tikzpicture}
3 \draw (0,0) \coord(ref) node[Quad Z,alt,round sources,european,anchor=1+,Z11=$Z_a$,Z22=$Z_b$,Z12=$Z_{re}$,Z21=$Z_{fe}$,I1=$I_a$,V1=$V_a$,I2=$I_b$,V2=$V_b$](Qz1){}
4 (Qz1.2+) -- ++(1.5,0) \coord(X) -- ++(1.5,0) node[Quad Y,alt,anchor=1+,Y11=$Y_a$,Y22=$Y_b$,Y12=$Y_{re}$,Y21=$Y_{fe}$,I1=$I_d$,V1=$V_d$,I2=$I_c$,V2=$V_c$](Qy1){}
5 (Qy1.2+) -- ++(1,0) node[Thevenin,alt,anchor=1+,Vth=$V_1$,Zth=$Z_a$,I1=$I_h$,V1=$V_h$](th1){}
6 (Qz1.1-) -- ++(0,-1.5) node[Quad H,european,alt,anchor=1+,H11=$H_a$,H22=$H_b$,H12=$H_{re}$,H21=$H_{fe}$,I1=$I_e$,V1=$V_e$,I2=$I_e$,V2=$V_e$](Qh1){}
7 (Qh1.2+) -- ++(1.5,0) \coord(Y) -- ++(1.5,0) node[Quad G,alt,anchor=1+,G11=$G_a$,G22=$G_b$,G12=$G_{re}$,G21=$G_{fe}$,I1=$I_g$,V1=$V_e$,I2=$I_f$,V2=$V_f$](Qg1){}
8 (Qg1.2+) -- ++(1.0) node[Norton,alt,control sources,european,anchor=1+,In=$I_b$,Yn=$Y_b$,I1=$I_i$,V1=$V_i$](nr 1){}
9 (Qz1.2-) -- (Qy1.1-) (Qy1.2-) -- (th1.1-)
10 (Qh1.2-) -- (Qg1.1-) (Qg1.2-) -- (nr1.1-)
11 ;
12 \draw (X) to[R=$Rx$] (X |- Qz1.2-)
13  (Y) to[R=$Ry$] (Y |- Qh1.2-)
14  (Y) to[R=$Ry$] (Y |- Qh1.2-)
15 \end{tikzpicture}
16 }
```

LATEX Result:

