Electrical Circuits

Python-Mathematica code conversion table

Python	Mathematica

`from sympy import Symbol`
`vo = Symbol("vo")`
`vr = Symbol("vr")`
`ir = Symbol("ir")`
`ic = Symbol("ic")`
`il = Symbol("il")`
`r = Symbol("r")`
`omega = Symbol("omega")`
`c = Symbol("c")`
`l = Symbol("l")`
 	
`eq1 = (vr + vo - 1,`
`ir - ic - il,`
`vr - ir*r,`
`vo - ic/(1j*omega*c),`
`vo - 1j*omega*l*il)`
	`eq1={vr+vo==1, ir==ic+il, vr==irr, vo==ic/(I omega c),`
	`vo==I omega l il}`

`sol = sympy.solve(eq1, (vo, vr, ir, ic, il))`	`Solve[eq1,{va,vr,ir,ie,il}]`