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** func_suma **
* NI Multisim to SPICE Netlist Export
* Generated by: berta
* Wed, Dec 15, 2021 11:15:36
*## Multisim Component U1 ##*
xU1 0 1 out 3T_VirtualU1 PARAMS: Vos=0 Ib=0 Ioff=0 Av=200000 BW=100000000 Rin=3000000 Rout=10 Vpos=12 Vneg=-12
.SUBCKT 3T_VirtualU1 in_pos in_neg out PARAMS: Av=500k BW=10Meg Rin=10Meg Rout=0 Vos=0 Ib=0 Ioff=0 Vpos=15 Vneg=-15
* Input Stage: Rin, Ibias, Voffset
Vos in pos 4 {Vos}
Ibias1 4 0 {Ib}
Ibias2 in_neg 0 {Ib}
Ios 4 in_neg {Ioff/2}
Rin 4 in_neg {Rin}
*Middle stage: Gain, frequency, voltage limiting Bgain 0 6 I=\{v(4,in\_neg)*Av/lmeg \}
R1 6 0 1meg
CP1 6 0 {Av/(2*pi*1meg*BW)}
Vpos 9 0 {Vpos}
Dlimit_pos 6 9 d1
Vneg 10 0 {Vneg}
Dlimit_neg 10 6 d1
.model d1 d(n=0.1)
*Output stage: Buffer, output resistance E2 7 0 6 0 1
Rout 7 out {Rout}
.ends
*## Multisim Component R3 ##*
rR3 1 out 1000 vresR3
.model vresR3 r(TC1=0 TC2=0)
*## Multisim Component R2 ##* rR2 b 1 1000 vresR2 .model vresR2 r(TC1=0 TC2=0 )
*## Multisim Component R1 ##* rR1 a 1 1000 vresR1 .model vresR1 r(TC1=0 TC2=0)
```