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\*\*\*\* 11/27/20 23:34:48 \*\*\*\* PSpice 9.2 (Mar 2000) \*\*\*\* ID# 1 \*\*\*\*

\*\* Profile: "SCHEMATIC1-simula" [ C:\Users\jorge\Desktop\examen\parcial\problema5-SCHEMATIC1-simula.sim ]

\*\*\*\* CIRCUIT DESCRIPTION

\*\*\*\*\*

\*\* Creating circuit file "problema5-SCHEMATIC1-simula.sim.cir"  
\*\* WARNING: THIS AUTOMATICALLY GENERATED FILE MAY BE OVERWRITTEN BY SUBSEQUENT SIMULATIONS

\*Libraries:  
\* Local Libraries :  
\* From [PSPICE NETLIST] section of c:\programas\orcad\PSpice\PSpice.ini file:  
.lib "nom.lib"

\*Analysis directives:  
.OP  
.PROBE V(\*) I(\*) W(\*) D(\*) NOISE(\*)  
.INC ".\problema5-SCHEMATIC1.net"

\*\*\*\* INCLUDING problema5-SCHEMATIC1.net \*\*\*\*

\* source PROBLEMA5  
V\_V1 VCC 0 5  
V\_Vin N02793 0 DC 0Vdc AC 1Vac  
R\_R1 N00203 VCC 560  
R\_R2 0 N00203 470  
R\_RC N00346 VCC 12  
R\_R8 0 N02865 14.74  
R\_RE 0 N00364 12  
Q\_Q1 N00346 N00203 N00364 Q2N3904  
C\_C1 N02766 N00203 4.7u  
C\_C2 N00364 N02865 47u  
C\_CC N00346 VCC 220u  
R\_RS N02793 N02766 1k

\*\*\*\* RESUMING problema5-SCHEMATIC1-simula.sim.cir \*\*\*\*

.END

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\*\*\*\* BJT MODEL PARAMETERS

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Q2N3904  
 NPN  
 IS 6.734000E-15  
 BF 416.4  
 NF 1  
 VAF 74.03  
 IKF .06678  
 ISE 6.734000E-15  
 NE 1.259  
 BR .7371  
 NR 1  
 RB 10  
 RC 1  
 CJE 4.493000E-12  
 MJE .2593  
 CJC 3.638000E-12  
 MJC .3085  
 TF 301.200000E-12  
 XTF 2  
 VTF 4  
 ITF .4  
 TR 239.500000E-09  
 XTB 1.5  
 CN 2.42  
 D .87

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\*\*\*\* SMALL SIGNAL BIAS SOLUTION TEMPERATURE = 27.000 DEG C

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NODE	VOLTAGE	NODE	VOLTAGE	NODE	VOLTAGE	NODE	VOLTAGE
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( VCC)	5.0000	(N00203)	2.0323	(N00346)	3.7964	(N00364)	1.2153
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(N02766)	0.0000	(N02793)	0.0000	(N02865)	0.0000
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VOLTAGE SOURCE CURRENTS  
 NAME CURRENT

V_V1	-1.056E-01
V_Vin	0.000E+00

TOTAL POWER DISSIPATION 5.28E-01 WATTS

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\*\*\*\* OPERATING POINT INFORMATION TEMPERATURE = 27.000 DEG C

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\*\*\*\* BIPOLAR JUNCTION TRANSISTORS

NAME	Q_Q1
MODEL	Q2N3904
IB	9.75E-04
IC	1.00E-01
VBE	8.17E-01
VBC	-1.76E+00
VCE	2.58E+00
BETADC	1.03E+02
GM	2.43E+00
RPI	2.89E+01
RX	1.00E+01
RO	7.55E+02
CBE	1.20E-09
CBC	2.53E-12
CJS	0.00E+00
BETAAC	7.03E+01
CBX/CBX2	0.00E+00
FT/FT2	3.20E+08

JOB CONCLUDED

TOTAL JOB TIME .03

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