C1
0.5m
U1
R1
1k
R2
1k
R3
2k
C2
2m.
a
V1
SINE(0 10 0.636363 0 0 180)
R6
R5
1k
R7
1k
U3
R4
1k

.lib opamp.sub
.ic V(b)=-2 V(a)=-4

.tran 0 50 0 0.1

Conclusion:
Hence,the solution of differential equation is the V(a) .The eqn can be sucessfully solved using three op-amps.The transient analysis shows the solution of our diff. equation: