$$VO = ((R1+R2)/R1)VI$$
$$VO = ((500R+1K)/500R)1V = 3V$$
$$VO = ((500R+1K)/500R)(-1V) = -3V$$

R2

1K

R1

U1

VO

500R

VI

.lib opamp.sub

V1

SINE(0 1 60)

.tran 50m