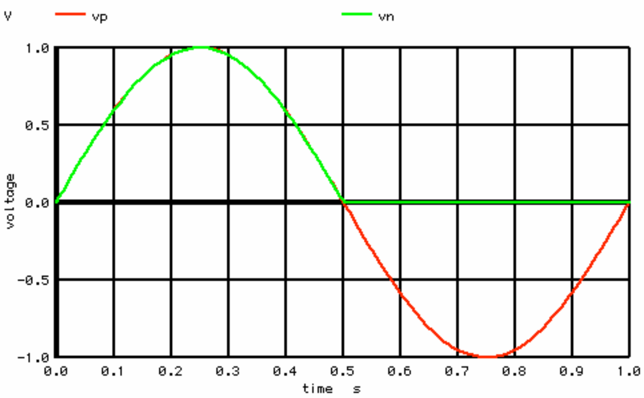
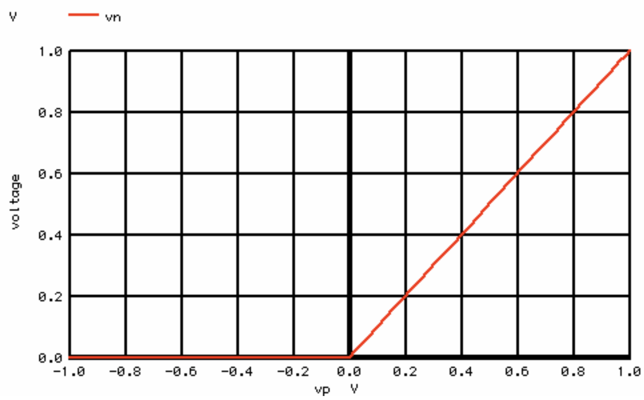
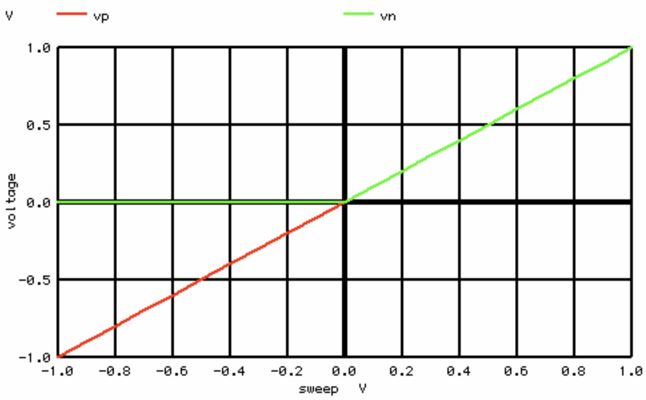
===================Simple_PerfectDiode================================

CREATE ANY BEHAVIORAL TRANSFORM FUNCTION.







Simple_PerfectDiode

```
*
*   VP              VN        RL
*     _______|\|______/\  /\  /\__
*    _|_     |/|        \/  \/    |
*   /   \                        _|_
*  //  \ \     BPerfD            ///
*  \    \//
*   \___/
*    _|_
*    ///
*

*=========Create_Signal=================
*V_SIN#    NODE_P NODE_N DC     VALUE  SIN(   V_DC   AC_MAG FREQ   DELAY  FDamp)
VIN        VP     0      DC     0      SIN(   0      1      1                   )
BPerfD     VP     VN     I      =      u(     V(VP)- V(VN) )*( V(VP)- V(VN)     )
RL         VN     0      1k

.control
*TRAN      TSTEP  TSTOP  TSTART TMAX   ?UIC?
tran       10m    1      0      10m
set        pensize = 2
plot       vp     vn
plot       vn     vs     vp

*DC        SOURC1 VSTART VSTOP  VSTEP  SOURC2 START2 STOP2  STEP2
dc         vin    -1     1      .1
plot       vp     vn
.endc
.end
```