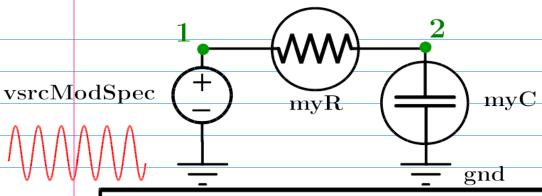
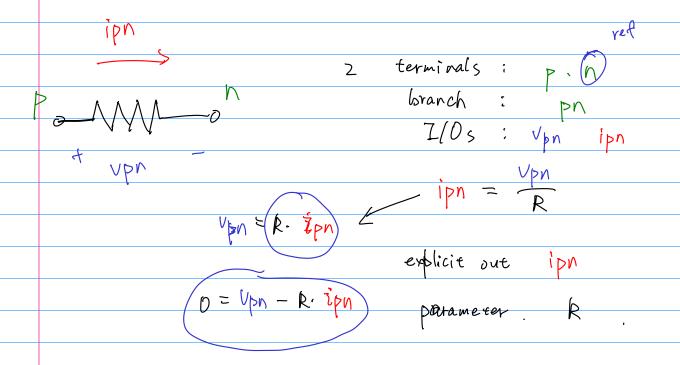
2 terminals: p. n branch: pn 7/0s: Vpn ipn t vpn use you, R ipn = $\frac{\sqrt{pn}}{R}$ ipn = $\frac{d}{dt}(ge) + fe$ ipn = $\frac{d}{dt}(o) + \frac{d}{dt}(o)$ explicit out ipn parameter. R z terminals: p. n branch: pn Z/Os: Vpn ipn ipn = d(C·vpn) + 0

dt(C·vpn) + 0

ge 2 fe explicit out; ipn parameter: C upn = d (L.ipn) explice on



```
1 function cktnetlist = myRC ckt()
       cktnetlist.cktname = 'myRC ckt';
 3
       cktnetlist.nodenames = {'1', '2'}; % non-ground nodes
       cktnetlist.groundnodename = 'gnd';
       cktnetlist = add_element(cktnetlist, myR(), 'R1', {'1', '2'}, {{'R', 1000}});
       cktnetlist = add_element(cktnetlist, myC(), 'C1', {'2', 'gnd'}, 1e-6);
 8
      mysinfunc = @(t, args) sin(2*pi*1000*t);
9
10
       cktnetlist = add element(cktnetlist, vsrcModSpec(), 'V1', ...
11
12
          {'1', 'gnd'}, {}, {{'DC', 1}, {'AC', 1}, {'TRAN', mysinfunc, []}});
13 end % myRC ckt
```



ipn

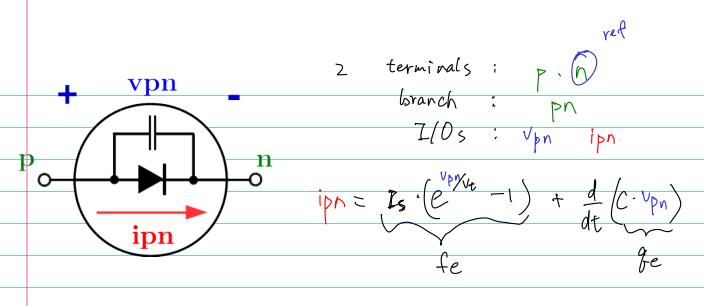
Z terminals: $p \cdot \hat{b}$ N branch: pn $T(0s) \cdot v_{pn} \cdot v_{pn}$ implicit equation: $p = v_{pn} - R \cdot v_{pn}$ $0 = \frac{d}{dR}(9i) + fi$ $v_{pn} \cdot v_{pn} \cdot v_{pn}$ $v_{pn} \cdot v_{pn} \cdot v_{pn}$ $v_{pn} \cdot v_{pn} \cdot v_{pn} \cdot v_{pn} \cdot v_{pn}$ $v_{pn} \cdot v_{pn} \cdot v_{pn} \cdot v_{pn} \cdot v_{pn} \cdot v_{pn}$ $v_{pn} \cdot v_{pn} \cdot v_{pn} \cdot v_{pn} \cdot v_{pn} \cdot v_{pn} \cdot v_{pn} \cdot v_{pn}$ $v_{pn} \cdot v_{pn} \cdot v_$

$$o = \mathbb{R} \left(ipn - \frac{d}{dt} (c \cdot Vpn) \right) - Vpn$$

mR unR_upn mR_implicit

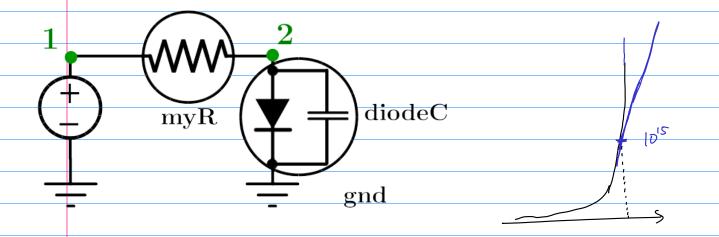
710V IV T myv...2

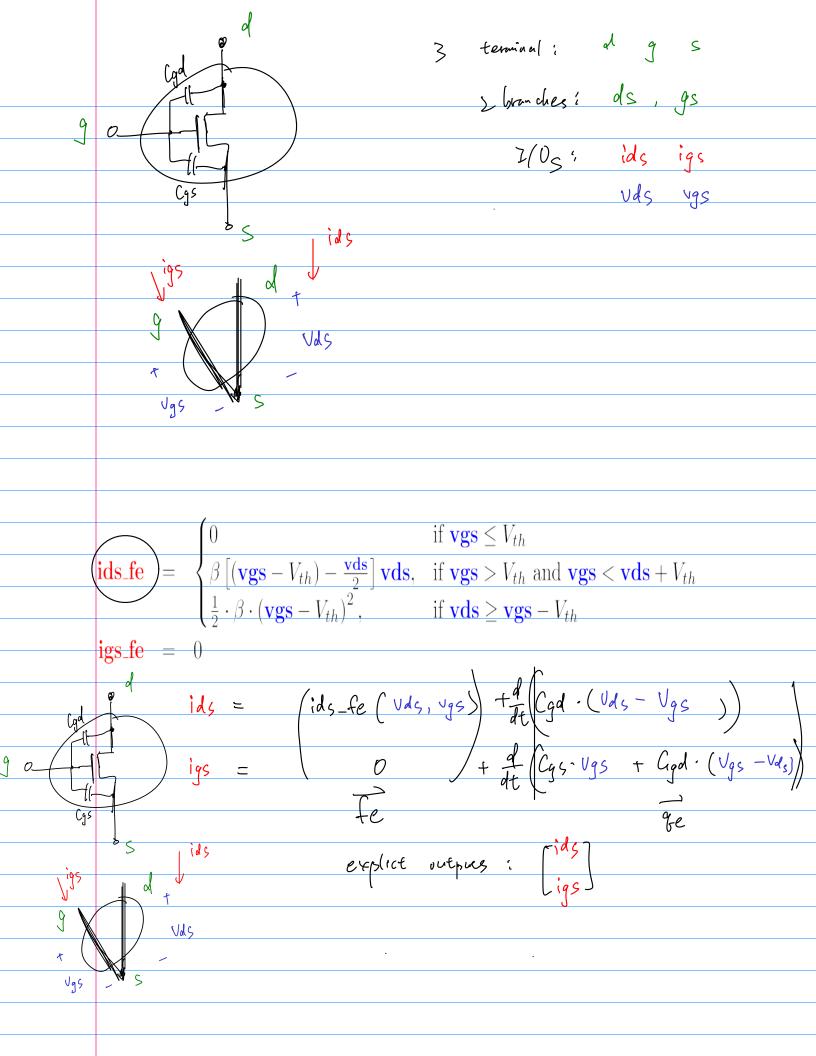
myv...

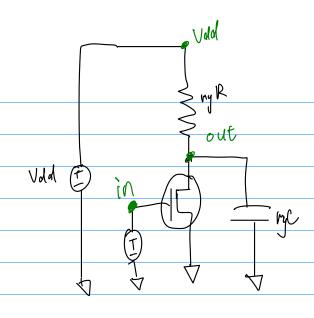


explicit out: ipn

parameter: Is, Vt, C







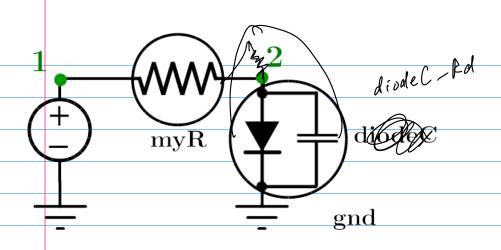
2 terminals: p. 6 branch: pn 7/0s: Vpn ipn

$$\frac{1}{100} = \frac{1}{100} \cdot \frac{1}{100} \cdot \frac{1}{100} + \frac{1}{100} \cdot \frac{1}{100} \cdot \frac{1}{100} = \frac{1}$$

$$\frac{d}{dt} \left(\frac{d}{dt} \right) + \frac{d}{dt} \left(\frac{d$$

explicit out: ipn

parameter: Is, Vt, C



z terminals: p. 6

Portion 2 terminals: p. 6

Rod Z/Os: Vpn ipn

0 = d(C·Vpn-ipn·Rd) + diode (Vpn-ipn·Rd) - ipn gi

