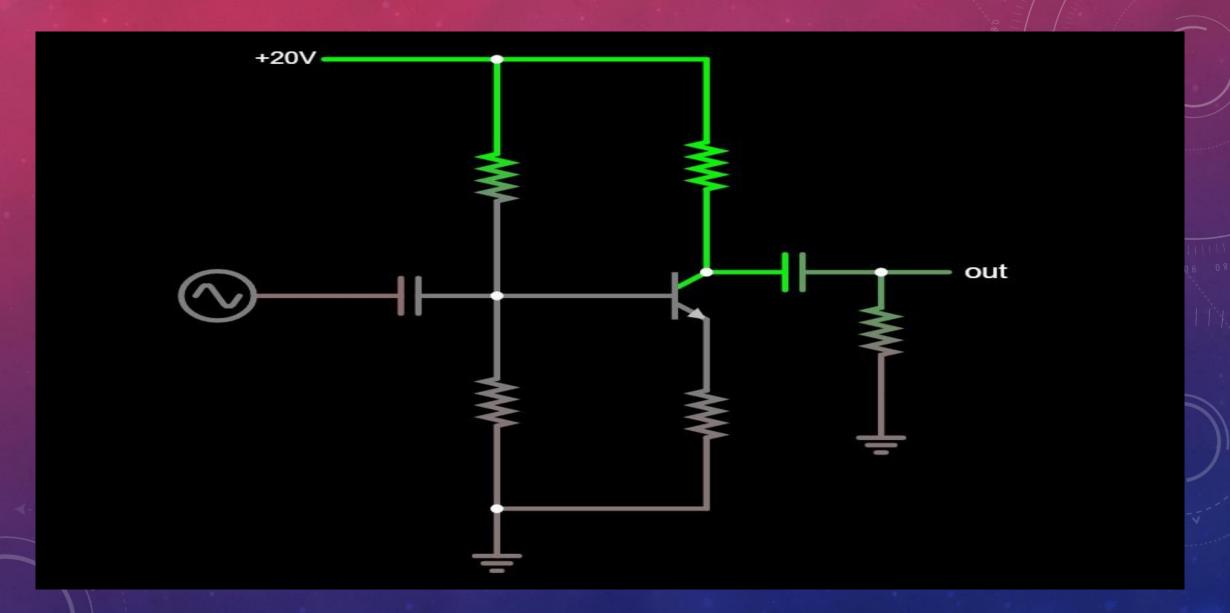


# CIRCUITUL PE CARE L-AM FOLOSIT IN APLICATIE



# PAGINA PRINCIPALA

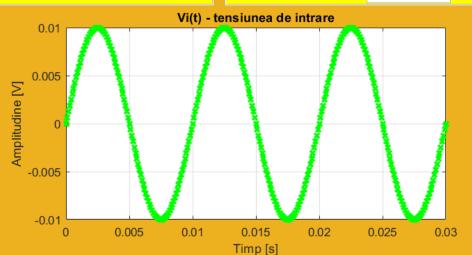


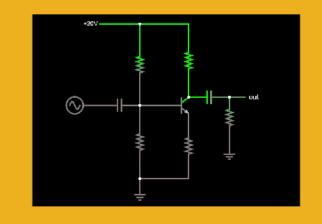
# Tipul de semnal si reprezentare Sinusoidal φ(°) 0 Nr(perioade) 3 Parametrii de semnal mic Ro[kOhm] 0.22 rbe[kOhm] 1.25 Av -10.56 Ri[kOhm] 0.0908037

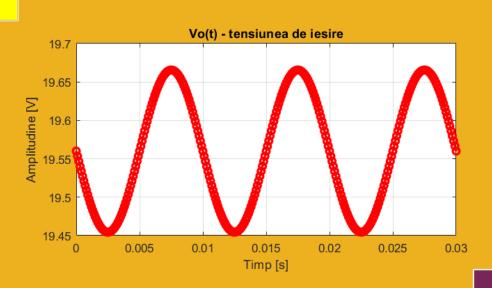
gm

80

-Parametrii	de intra	are -
VAI [V]	20	
A [V]	0.01	
Beta	100	
Rc[kOhm]	0.22	
Re [kOhm]	1	
Rb1 [kOhm]	4.7	
Rb2 [kOhm]	0.1	
RI [kOhm]	0.33	
f [Hz]	100	
le [mA]	2	







### Parametrii de intrare

VAI [V]	20
A [V]	0.01
Beta	100
Rc[kOhm]	0.22
Re [kOhm]	1
Rb1 [kOhm]	4.7
Rb2 [kOhm]	0.1
RI [kOhm]	0.33
f [Hz]	100
le [mA]	2

### Parametrii de semnal mic

```
      Ro[kOhm]
      0.22

      rbe[kOhm]
      1.25

      Av
      -10.56

      Ri[kOhm]
      0.0908037

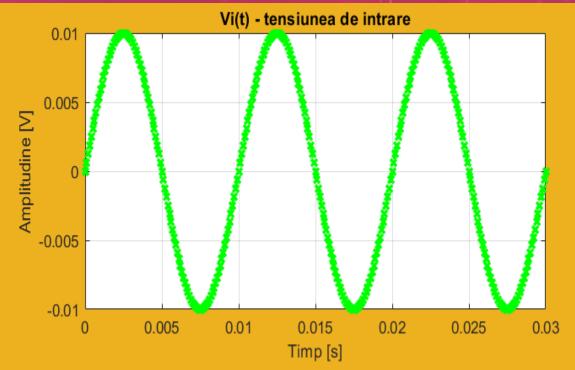
      gm
      80
```

```
%------butoanele pentru parametrii

Butoane_parametrii=uibuttongroup('Visible','on',...
'BackgroundColor','#FFFF00',...
'ForegroundColor','black',...
'Title','Parametrii de intrare',...
'FontSize',20,...
'FontWeight','bold',...
'TitlePosition','centertop',...
'Tag','radiobutton',...
'Position',[0.27 0.49 0.25 0.5]);
```

```
%------valorile calculate a parametriilor de semnal mic
RadioGroup=uibuttongroup('Visible','on',...
'BackgroundColor','#FFFF00',...
'ForegroundColor','black',...
'Title','Parametrii de semnal mic',...
'FontWeight','bold',...
'FontSize',20,...
'TitlePosition','centertop',...
'Tag','radiobutton',...
'Position',[0.01 0.49 0.25 0.3]);
```

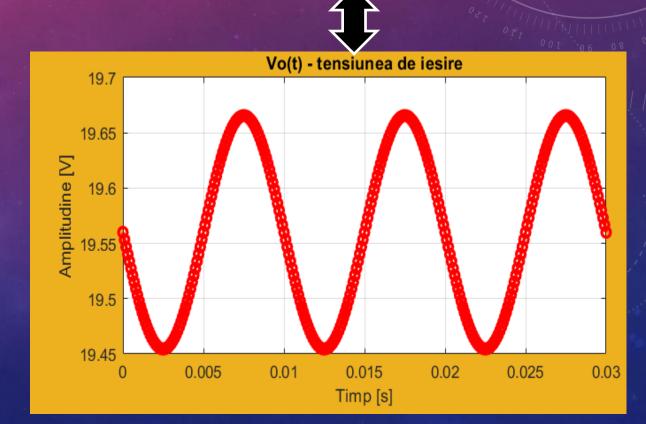
```
uicontrol('Style','popupmenu',...
                                                            %-----buton pentru tipuri semnale
'BackgroundColor', '#FFFF00',...
                                                            Tip Semnal=uibuttongroup('Visible','on',...
'Units','normalized',...
                                                            'BackgroundColor', '#FFFF00',...
'FontWeight', 'bold',...
                                                            'ForegroundColor', 'black',...
'FontSize',12,...
                                                            'Title', 'Tipul de semnal si reprezentare',...
'Position',[0 0.5 1 0.5],...
                                                            'FontSize',15.5,...
'value', valoare,...
                                                            'FontWeight', 'bold',...
'String', 'Sinusoidal Triunghiular Dreptunghiular Dinte de fierestrau',...
                                                            'TitlePosition','centertop',...
'Callback', 'valoare=get(gco,''value''),close;TEC(A,VAl,beta,Rc,Re,Rb1,Rb2
                                                            'Tag', 'radiobutton',...
                                                            'Position',[0.01 0.8 0.25 0.15]);
'Parent', Tip_Semnal);
                                         Tipul de semnal si reprezentare
                                         Sinusoidal
                                                                Nr(perioade) 3
                                           φ(°)
uicontrol('Style','text',...
                                                uicontrol('Style', 'text', ... %-----buton pentru perioade
'Units', 'normalized',...
                                                 'Units', 'normalized',...
'BackgroundColor', '#FFFF00',...
                                                 'Position',[0.5 0.2 0.4 0.3],...
'FontWeight', 'bold',...
                                                  'FontSize',10,...
'ForegroundColor', 'black',...
                                                   'FontWeight', 'bold',...
'HorizontalAlignment', 'center',...
                                                  'BackgroundColor', '#FFFF00',...
'FontSize',12,...
                                                'String', 'Nr(perioade)',...
'Position',[0.02 0.2 0.2 0.3],...
'String','φ(°)',...
                                                 'Callback','',...
'Parent', Tip_Semnal);
                                                 'Parent', Tip_Semnal);
```



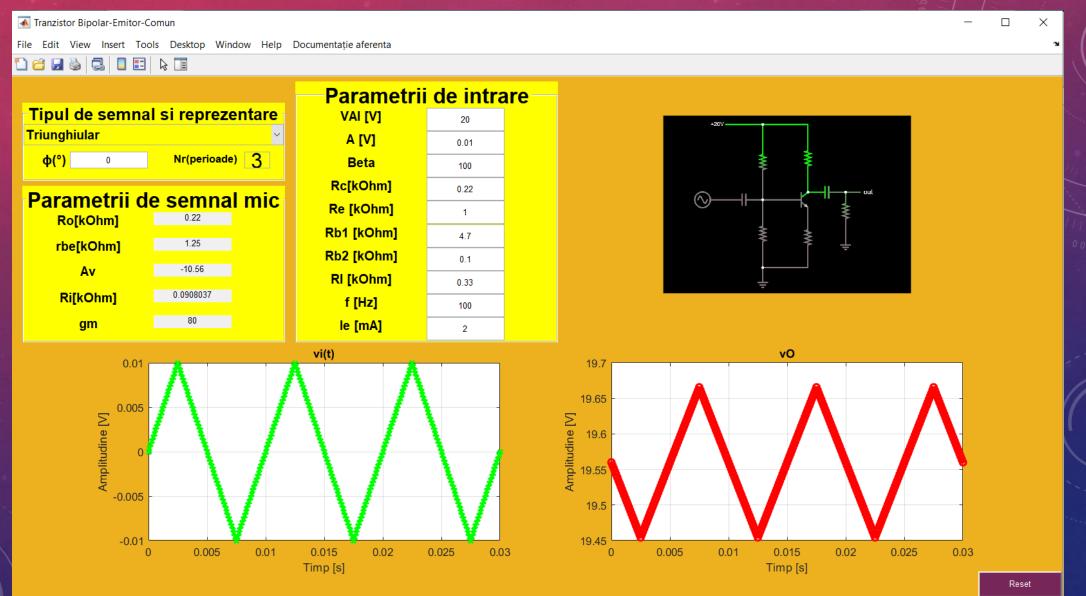
```
1
```

```
%-----semnalul de intrare
vi=A*sin(2*pi*f*t+def1*180/pi);
subplot(223);
plot(t,vi,'--Xg','Linewidth', 2);
title('Vi(t) - tensiunea de intrare');
grid on;
hold on;
xlabel('Timp [s]');
ylabel('Amplitudine [V]');
```

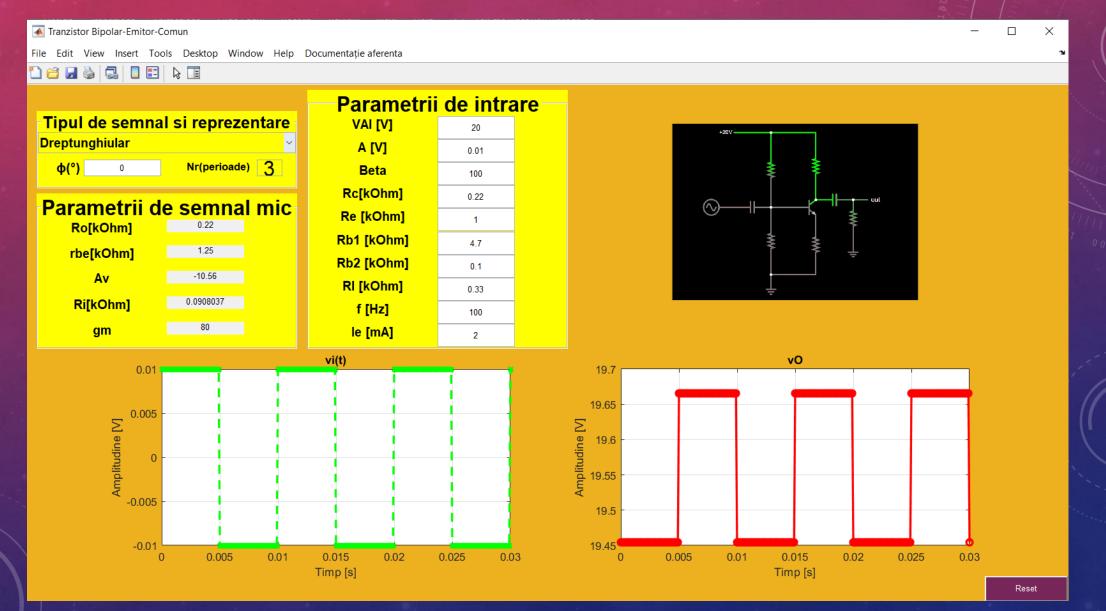
```
%-----semnalul de iesire
vO=VO+Av*A*sin(2*pi*f*t+def1*180/pi);
subplot(224);
plot(t,vO,'-or','Linewidth', 2);
title('Vo(t) - tensiunea de iesire');
grid on;
hold on;
xlabel('Timp [s]');
ylabel('Amplitudine [V]');
```



# SEMNAL TRIUNGHIULAR



## SEMNAL DREPTUNGHIULAR



# SEMNAL DINTE DE FIERASTRAU

