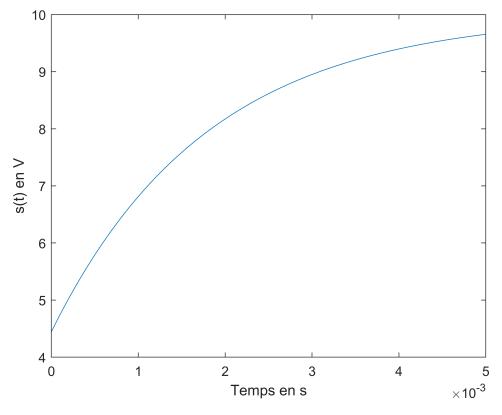
```
clear all
close all
syms R1 R2 C Ep s E t
netlist={'V1 1 0 Ep'
     'R1 1 2 R1'
     'R2 2 3 R2'
     'C1 3 0 C'};
[X name]=fspice(netlist)
** fspice 2.43 ** (c) Frederic Martinez
  \frac{\text{Ep } (C R_2 s + 1)}{C R_1 s + C R_2 s + 1}
  \frac{\text{Ep}}{C R_1 s + C R_2 s + 1}
 -\frac{C \operatorname{Ep} s}{C R_1 s + C R_2 s + 1}
name = 1 \times 4 cell
'V(1)' 'V(2)'
                                           'I(V1)'
                             'V(3)'
Ep=E/s %TL de e(t)
Ep =
\underline{\mathbf{E}}
S=subs(X(2)) %TL de s(t)
S =
    E (C R_2 s + 1)
\overline{s (C R_1 s + C R_2 s + 1)}
I=-subs(X(4)) % TL de i(t)
I =
\frac{C E}{C R_1 s + C R_2 s + 1}
s=simplify(ilaplace(S)); %s(t)=TL inverse de S
pretty(s)
    / t \
E R1 exp| - ----- |
        \ C (R1 + R2) /
              R1 + R2
i=simplify(ilaplace(I)); %i(t)=TL inverse de I
pretty(i)
```

```
% Tracé des courbes
R1=10; R2=8; C=100e-6;E=10;
t=linspace(0,5e-3,500);
s=double(subs(s));
plot(t,s)
xlabel('Temps en s')
ylabel('s(t) en V')
```



```
figure
i=double(subs(i));
plot(t,i)
xlabel('Temps en s')
ylabel('i(t) en A')
```

