

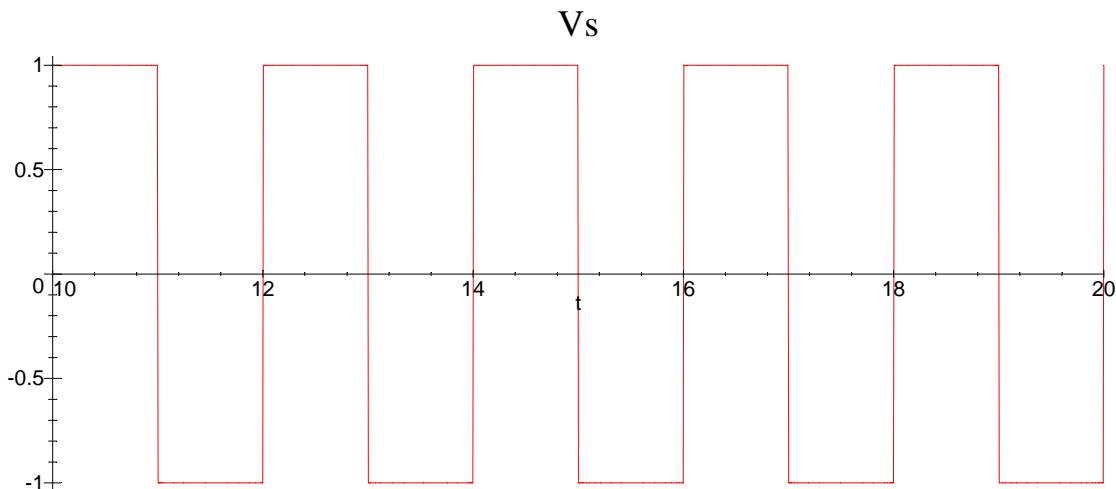
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[ STUDENT > restart;
[ STUDENT > with(inttrans):[addtable,fourier,fouriercos,fouriersin,hankel,hilbert,
    invfourier,invhilbert,invlaplace,laplace,mellin]
STUDENT > DiffEqn:=Vs(t)=R*i(t)+L*diff(i(t),t);

$$DiffEqn := Vs(t) = R i(t) + L \left( \frac{\partial}{\partial t} i(t) \right)$$

[ STUDENT > Vs(t):=Heaviside(t)+sum(2*(-1)^(k mod
    2)*Heaviside(t-k),k=1..20):
STUDENT > plot(Vs(t),t=10..20,title='Vs');

```

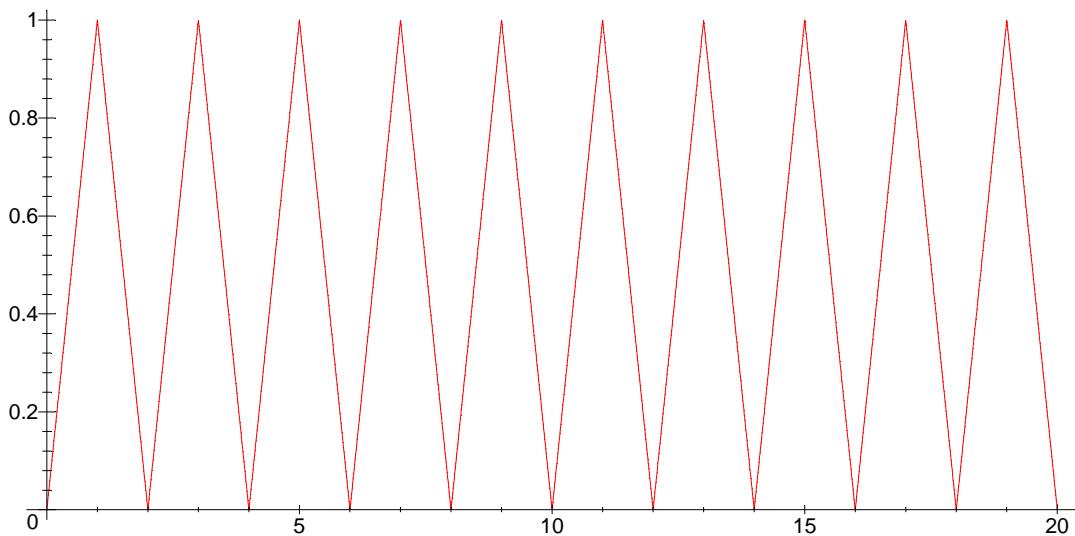


```

STUDENT > plot(rhs(dsolve({subs({L=1,R=0},DiffEqn),i(0)=0},i(t))),t=
    0..20,title='Current_With_R_equal_0',numpoints=2000);

```

Current_With_R_equal_0

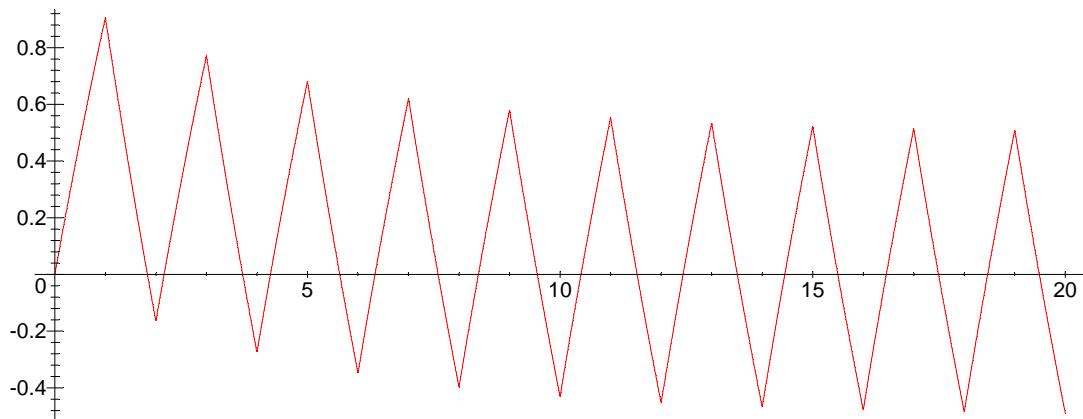


```

STUDENT > plot(rhs(dsolve({subs({L=1,R=0.2},DiffEqn),i(0)=0},i(t))),t=
    0..20,title='Current_With_R_equal_0point2',numpoints=2000);

```

Current_With_R_equal_0point2



```
STUDENT > plot(rhs(dsolve({subs({L=1,R=10},DiffEqn),i(0)=0},i(t))),t  
=0..20,title='Current_With_R_equal_10',numpoints=2000);
```

Current_With_R_equal_10

