

Example: Solve for  $y(t)$  in the following first-order DE if  $y(0) = 8$

$$\frac{dy}{dt} + 10y(t) = 20, t \geq 0 \quad \Rightarrow \text{Answer: } v(t) = v_n + v_f = 6e^{-10t} + 2 \text{ V, } t \geq 0$$

MATLAB Solution:

```
% filename: DiffEq1.m
% Solution to 1st order DE from class using MATLAB
disp('Solution without initial condition: ')
dsolve('Dy + 10*y = 20')
disp('Solution with initial condition: ')
syms DE1 IC1
DE1 = 'Dy + 10*y = 20'
IC1 = 'y(0) = 8'
Solution1 = dsolve(DE1,IC1)
```

```
EDU>> DiffEq1
Solution without initial condition:
ans =
C4/exp(10*t) + 2
Solution with initial condition:
DE1 =
Dy + 10*y = 20
IC1 =
y(0) = 8
Solution1 =
6/exp(10*t) + 2
```

# Using Matlab For Differential Equations

**Judd E. Hollander**



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