

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

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Using Matlab For Differential Equations:

Reviewing **Using Matlab For Differential Equations**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Using Matlab For Differential Equations**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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