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derivative present in
the equation. Linear
or nonlinear. A

second order ODE is
said to be linear if it
can be written in the
form $a(t) \frac{d^2y}{dt^2}$

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Linear Algebra

$+b(t) \frac{dy}{dt} +c(t)y =$

$f(t)$, (1.8) where the

coefficients $a(t)$, $b(t)$

& $c(t)$ can, in general,

be functions of t . An

equation that is not

linear is said to be

nonlinear. Note

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Notes

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the methodology
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include $dy/dt = y$,
 $dy/dt = -y$, $dy/dt =$
 $2ty$. The equation
 $dy/dt = y * y$ is
nonlinear.

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Exercise, use the

result of Exercise 23

and l' Hopital ' s

rule to show that the

given functions are

exponentially

bounded on $[0, \infty)$. $3 t$

$\cosh 2 t$ Exercise 23

Show that if f is

continuous on $[0, \infty)$

and if is a finite

number L for some

constant a , then f is

exponentially

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bounded on $[0, ?)$.

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of calculations to help
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graphically for

students to focus on

the qualitative

information embodied

in solutions, rather

than just to learn to

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Using MATLAB ...

A linear equation or polynomial, with one or more terms, consisting of the derivatives of the dependent variable with respect to one or more independent variables is known as a linear differential equation.

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solutions $y = e^{\lambda t} x$

where λ and x are an

eigenvalue /

eigenvector pair for A

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