Mech 2 Math week 3 tutorial.
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This week, it's all about solving
1st order linear DE's. It will cover
the material from lectures 5&6 (online
at www.math. ubc. ca/~wetton).

A) First order, constant coeff linear,
solving by MUC: give 5 examples,
of which 1 is nonlinear

$\begin{cases} 1 \text{ is linear but not constant} \\ \quad \text{coff.} \\ 1 \text{ is constant coff but not} \\ \quad \text{doable by MUC.} \end{cases}$

Get them to solve the other 2, with
your help.

B) Go back to these 2 and solve them
using the formula for general linear
first order problems. Do more problems
as time permits of this type.

Mix up notation - use $x(t)$, $y(x)$, $s(\theta)$ etc
for DE solutions.