# Math 23 Diff Eq: Homework 3 

due Wed Oct 17 ... but best if do relevant questions after each lecture

No computers needed this week-just your brains and pencils! Remember that since the grader \& I know you have an answer in the back of the book, we are looking for brief but clear explanations, and understanding. Remember also HW is a time for you to practise - treat it as you would a practise session for a language, sport, or musical instrument.
3.1: 8,

11,
23.
3.2: 4,

9 (be sure to give $p(t), q(t)$ and $g(t))$,
26,
28.
3.3: 4,

17,
24 (please explain carefully).

## 3.4: 5 (hint: take log),

6,
10 ,
18,
27,
33 (again, a proof so explain as clearly and simply as you can),
38 (make sure you can use chain rule by checking 34 ab ),
39.

