## 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,

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9 (be sure to give p(t), q(t) and g(t)),
26,
```

20,

28.

3.3: 4,

17,

24 (please explain carefully).

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3.4: 5 (hint: take log),
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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.