## Math 23 Diff Eq: Homework 5

## due Wed Oct 31

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3.9: rest of 17 (bcd) (plot can be replaced by sketch but be sure to label some values, width/height of peak,
5.1: 1,
     3 (these first three are key),
     8 (fun!),
     17,
     26 (practise playing with the index in sums).
5.2: 2,
     15 (for b you could use example matlab code from the plot in HW4).
5.3: 2 (use the method of p. 261, not the usual power series matching of terms. Note x_0 = 0),
     7 (sketch of complex plane is elegant),
     10 (for a, group a_n terms and simplify before equating coeffs in x_n).
5.5: 3,
     4 (these amount to applying the solution forms learned, not hard),
     13 (can replace plot with labelled sketch if you want).
7.1: 2 (easy),
     7 (sketch in the x_1, x_2 plane).
```