

1. $xy' + py = 0$ study, w/ qualitative info, examples.
2. Next $x^2y' + pxy' + qy = 0$

Why not $xy'' + py' + qy = 0$ $\frac{2}{0}$

Why not $x^2y'' + py' + qy = 0$ $\frac{2}{0}$
 what about $ry'' + py' + qy = 0$ $\frac{2}{0}$

3. The indicial equation, the recurrence relation, a Fuchs' Theorem.
4. Cases & their qualitative behaviour, with examples.
5. Something about the COV $x = e^t$ $\frac{2}{0}$