

Math 1b. Lecture 29
Solving Separable First-Order Differential
Equations

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1 Goals

- To understand and be able to solve first-order separable differential equations.
- To be able model situations requiring first-order separable differential equations, such as mixing problems.

References

- §7.3–5 in James Stewart. *Single Variable Calculus: Concepts & Context*, third edition. Brooks/Cole, Belmont CA, 2005. ISBN 0–534–41022–7.
- §31.4 in Robin J. Gottlieb. *Calculus: An Integrated Approach to Functions and Their Rates of Change*, preliminary edition. Addison Wesley, Boston, 2002. ISBN 0–201–70929–5.

Notes

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