

Goal and idea - Module 4

GOAL:

We have turned a page, and began to learn how to solve many 1st-order differential equations. We begin with a class of 1st-order differential equations called separable equations. Our goal is to learn how to find solutions for such differential equations.

To do so, we:

- Define what separable equations are.
- Discuss how to solve such differential equations.
- Briefly review and discuss antiderivatives.

IDEA:

We will find that separable equations are differential equations, in which we can separate the variables in such a way that we are able to solve the differential equation by integrating. The advantage is that solving such differential equations is as simple as integrating! The disadvantage is, we must recall all of our integration techniques!