

Chapter 9

Exponential Growth and Decay: Differential Equations

9.1 Observations about the exponential function

In a previous chapter we made an observation about a special property of the function

$$y = f(x) = e^x$$

namely, that

$$\frac{dy}{dx} = e^x = y$$

so that this function satisfies the relationship

$$\frac{dy}{dx} = y$$

We call this a *differential equation* because it connects the (or more) derivatives of a function with the function itself.

In this chapter we will study the implications of the above observation. Some some of the applications that we encounter will be those dependent processes, we will have seen (for that) as the independent variable.

There are examples of the following observations:

1. Let y be the function of time

$$y = f(t) = e^t$$

Then

$$\frac{dy}{dt} = e^t = y$$

With this slight change of notation, we see that the function $y = e^t$ satisfies the differential equation

$$\frac{dy}{dt} = y$$

Unit 9 Exponential And Decay

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