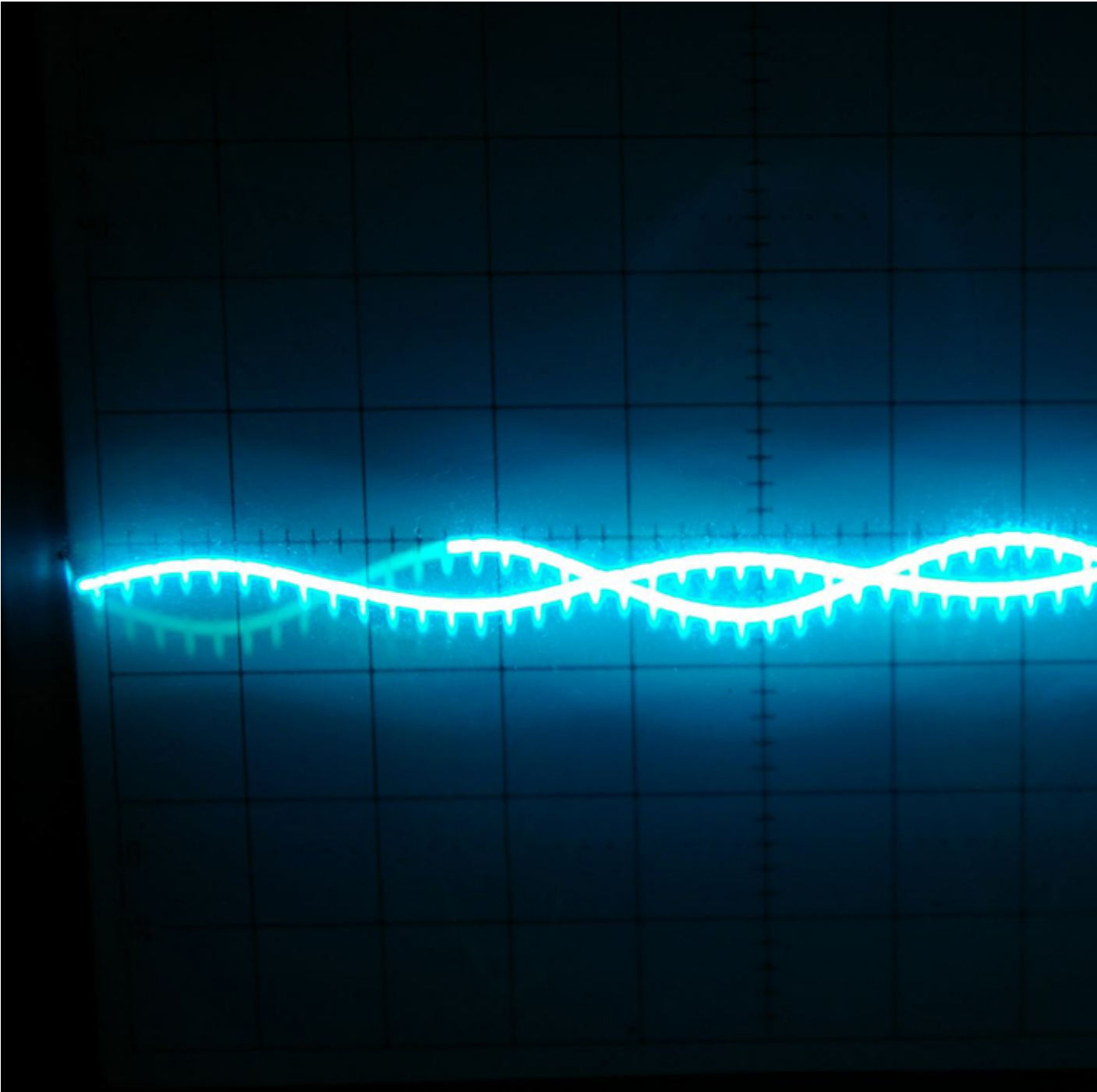




# Introduction to Trigonometric Identities and Equations

By:  
OpenStaxCollege



*A sine wave models disturbance. (credit: modification of work by Mikael Altemark, Flickr).*

Math is everywhere, even in places we might not immediately recognize. For example, mathematical relationships describe the transmission of images, light, and sound. The sinusoidal graph in [\[link\]](#) models music playing on a phone, radio, or computer. Such graphs are described using trigonometric equations and functions. In this chapter, we discuss how to manipulate trigonometric equations algebraically by applying various

## Introduction to Trigonometric Identities and Equations

formulas and trigonometric identities. We will also investigate some of the ways that trigonometric equations are used to model real-life phenomena.