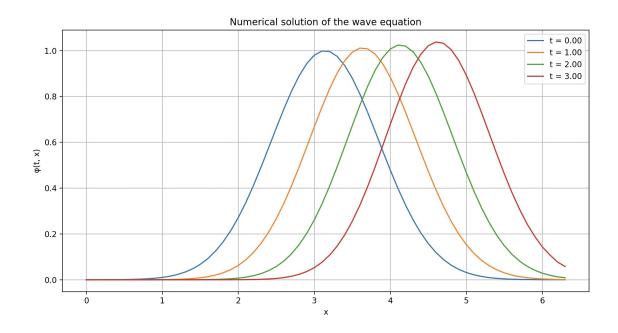
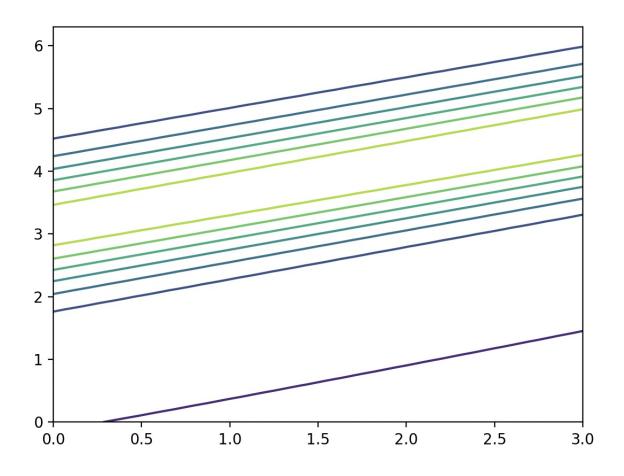
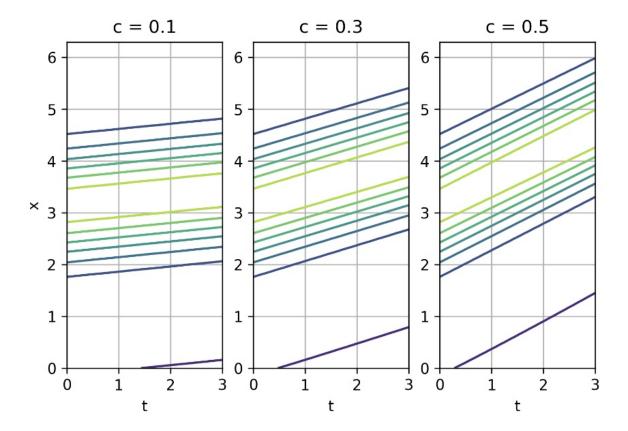
## **Problem 1**





## Problem 2



The relationship between the numerical value of c and the contour plots of  $\phi(t,x)$  shown is that as c increases, the slope of the contour plot increases. c represents the slope of the lines.