## Problem 1

Find the area bounded by the two functions $y=x^{2}+1$ and $y=2$.

## Problem 2

Find the area between $y=\sin (x)$ and $y=\cos (x)$ on the interval $[0, \pi]$

## Problem 3

Let $y=\sqrt{x+1}+2, y=3-x, y=0$ and $x=-1$. Find the area of the region bounded by these functions by integrating with respect to $y$.

