# Problem Set Section 6.1

### Problem 1

Find the area of the region enclosed by the curves  $y = x^2 - 2x$  and y = 2 - x.

## Problem 2

Find the area of the region enclosed by the curves  $x = y^2 - 4y$  and  $x = 2y - y^2$ .

## Problem 3

Find the area of the region enclosed by the curves

$$y = \sin 2x$$
 and  $y = \tan x$ ,  $\frac{-\pi}{4} \le x \le \frac{\pi}{4}$ .

## Problem 4

Find the area of the region enclosed by the curves y = |x| and  $y = x^2 - 2$ .