

## Problem Set 6-Wednesday

*Please indicate the members who are present. Also indicate the group coordinator.*

Group Number:	
Members:	

**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

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

**Problem 4**

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