17.812J / 14.296J Collective Choice I
Fall 2008

# 14.296/17.812 Problem Set 1

Persson and Tabellini
Chapter 2: Problems # 1-4

**Remember:** Assume that

$$y = f(x)$$

and $f$ is invertible. Then

$$x = f^{-1}(y)$$

and

$$\frac{df^{-1}(y)}{dy} = \frac{dx}{dy} = \frac{1}{\frac{dy}{dx}} = \frac{1}{f'(x)} = \frac{1}{f'(f^{-1}(y))}$$