

EE 320 Introductory Mathematical Economics

Semester 2/2012

Problem Set 2

1. Find the domain of

a) $f(x) = \frac{1}{2x+3}$

b) $g(x) = \sqrt{x^2 - 16}$

2. Graph the following functions:

a) $y = \frac{15}{x}$

b) $y = x^2 + x - 2$

c) $y = |x + 5|$

d) $y = x^{-1/3}$

e) $y = 5 - x^3$

f) $y = x^3 - 2x^2 + x - 2$

3. Which of the following equations are functions and why?

a) $y = -3x + 7$

b) $y^2 = x$

c) $y = -4x^2 + 7x - 2$

d) $x^2 + y^2 = 36$

4. Chiang & Wainwright: Exercise 2.4 Q. 8