

School of economics and law

EXAM

Course code: BE-409

Course name: Real Estate Economics

Date: September 29, 2014

Duration: 4 hours

Number of pages incl. front page: 2

Resources allowed: Calculator, book of formulas, dictionary

Notes: The student may answer the questions either in English or

in Norwegian.

Assignment 1 (counts 55%)

a) By means of a model, show that the housing rent in a monocentric city can be expressed by:

$$R(d) = (r^a q + c) + k(b - d)$$

where:

R(d) is housing rent

d is distance to the city center

 r^a is agricultural rent per m²

c is structure rent

k is cost of commuting per km

q is land per unit of housing

b is distance from the city center to the city border

- b) Illustrate the housing rent gradient in a figure and explain why the rent is higher at locations close to the city center.
- c) Derive the expression for the land rent.
- d) What might cause the rent on land to increase?