Advanced Macro

Assignment 5

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Integration

Julia code: click here.

Julia code
See A5.jl

Discretization of an AR(1) process

- a) Simulate a Markov chain
- b) Use Tauchen and Rouwenhorst's to discretize
- c) Compute the first four moments
- d) Plot

	Data	Tauchen	Tauchen	Rouwenhorst	Rouwenhorst
		N = 5	N = 15	N=5	N = 15
mean	-0.075	-0.002	0.049	0.071	0.08
var	22.214	13.94	12.168	20.772	21.403
skew	0.056	-0.01	-0.005	0.021	-0.042
kurt	-0.13	-0.981	-0.998	-0.491	-0.191
acorr	0.905	0.84	0.845	0.898	0.902

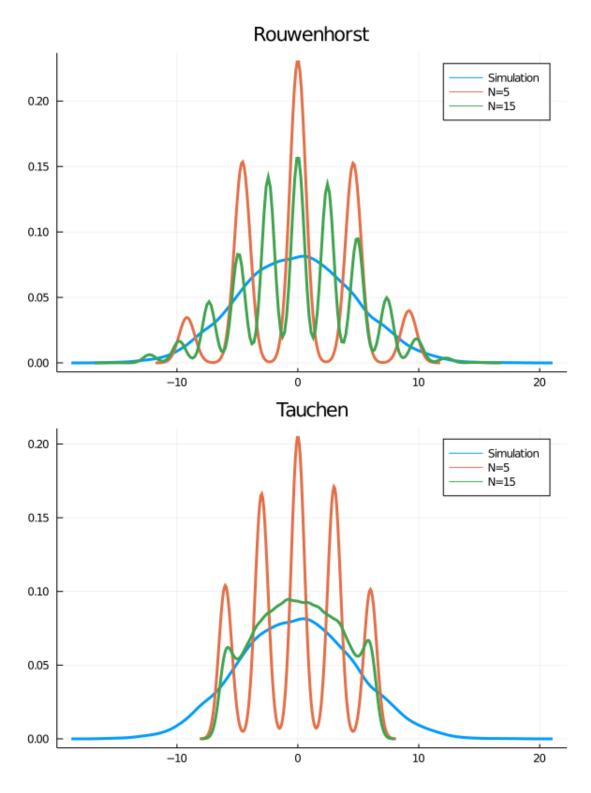


Figure 1: Density of Markov chains