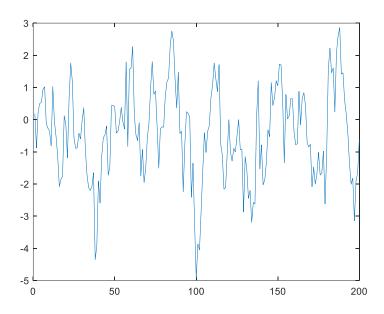
Exercise 1 - AR (in MATLAB)

September 5, 2017

1st Order System (provided)

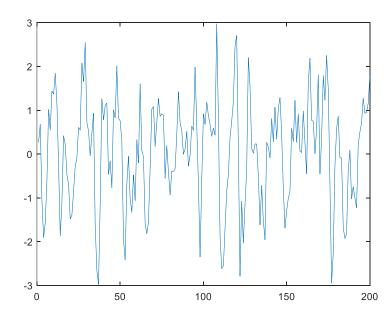
Parameters set: 1, -0.7



ARyule 1st Order estimation: 1.0000, -0.7589

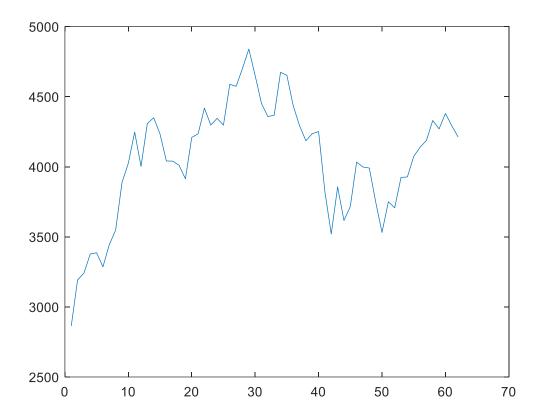
2^{nd} Order System (provided)

Parameters set: 1, -0.7, 0.2



ARyule 2^{nd} Order estimation: 1.0000, -0.7706, 0.2587

Financial Times Series (Bitcoin ~2 months)



ARyule 1st Order estimation: 1.0000 -0.9865

ARyule 2nd Order estimation: 1.0000 -1.0386 0.0529

ARyule 3^{rd} Order estimation: 1.0000 -1.0372 0.0256 0.0262

ARyule 4^{th} Order estimation: 1.0000 -1.0372 0.0256 0.0259 0.0003