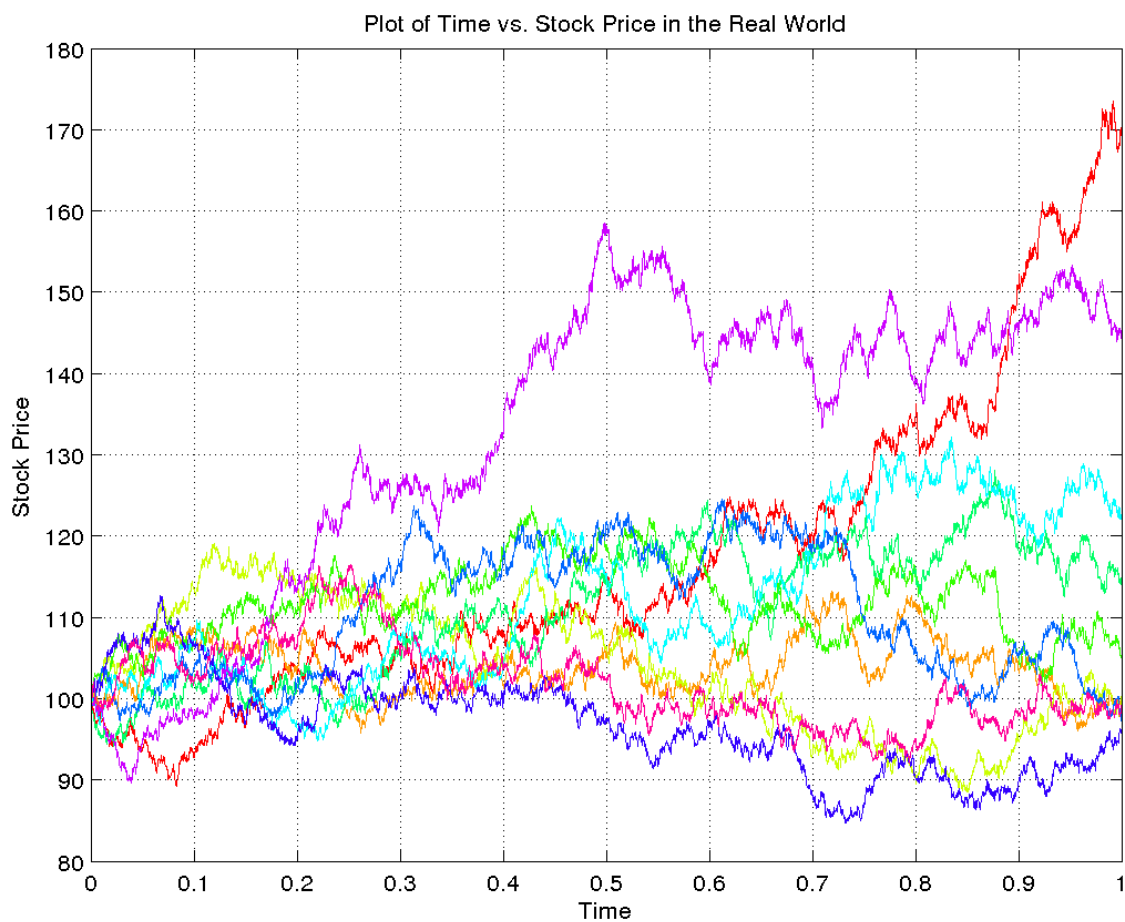


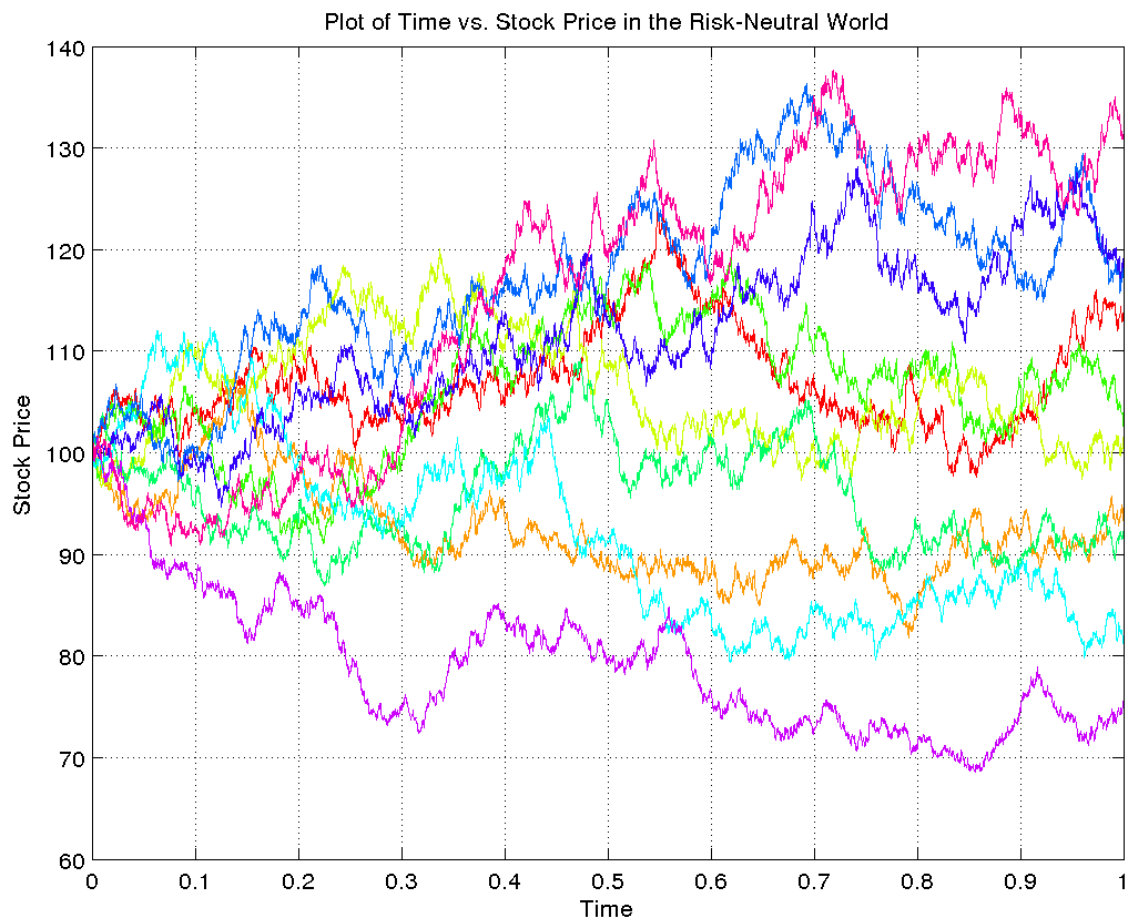
MA374 – Lab 10

Vibhanshu
120123049

1. Plot of Asset Price in the Real World:-



Plot of Asset Price in the Risk-Neutral World:-



Prices of Asian Options:-

95% Confidence Interval for Asian Call Option with $K = 105$,
[1.744568, 1.788869]

95% Confidence Interval for Asian Put Option with $K = 105$,
[5.398761, 5.477017]

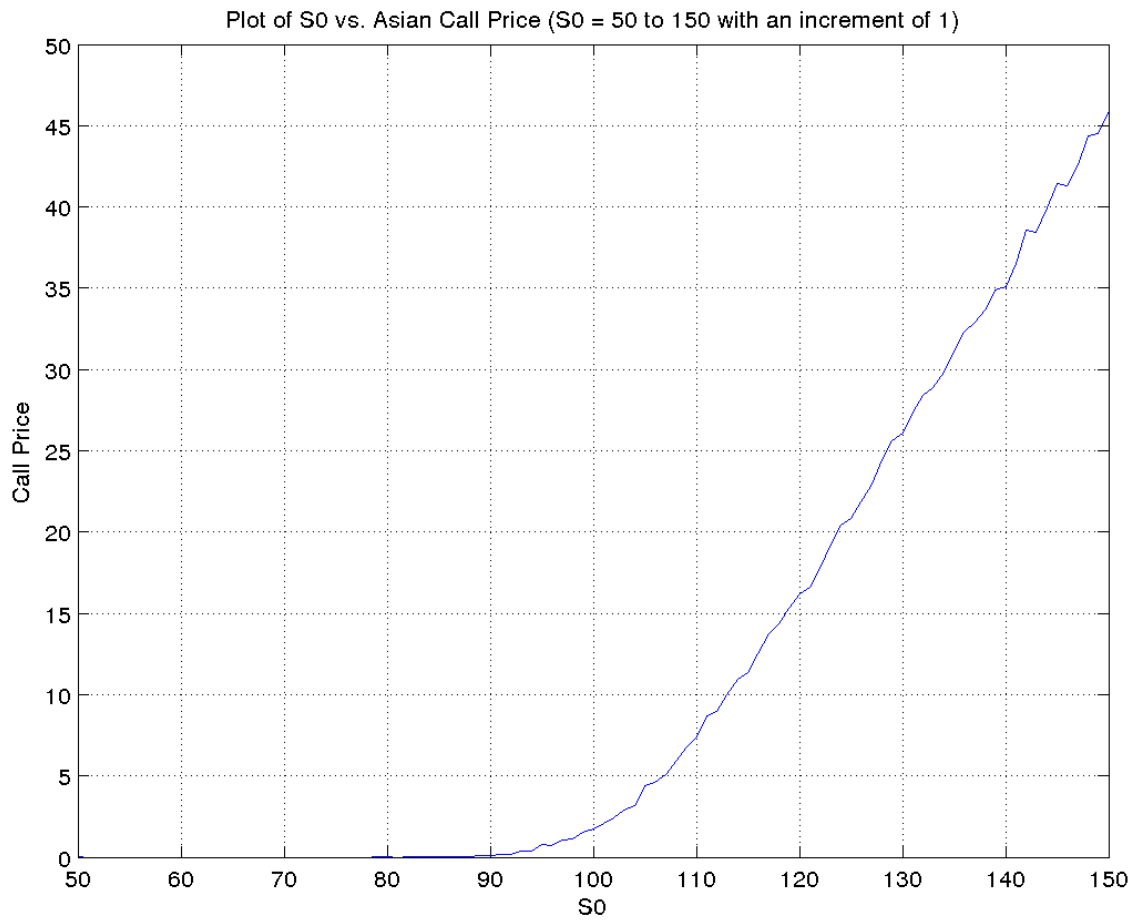
95% Confidence Interval for Asian Call Option with $K = 110$,
[0.687308, 0.716142]

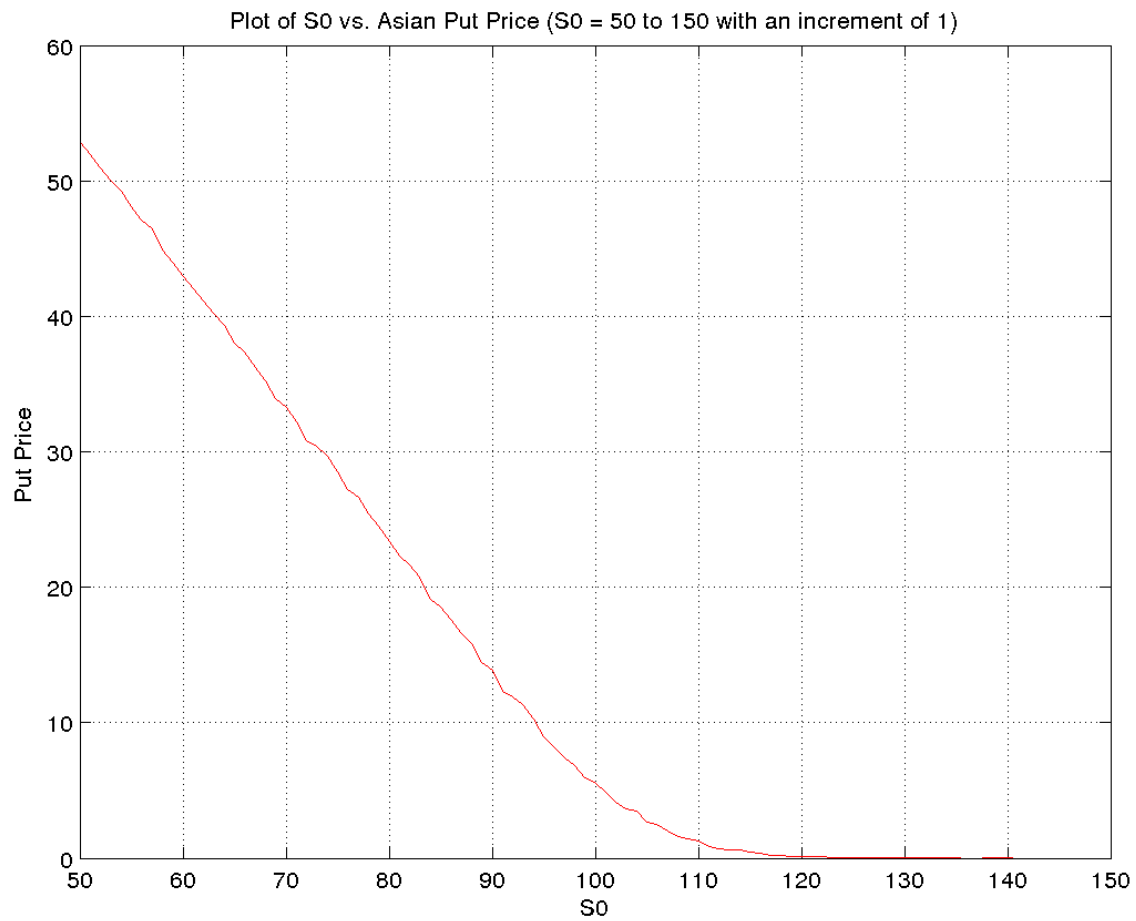
95% Confidence Interval for Asian Put Option with $K = 110$,
[9.163448, 9.244487]

95% Confidence Interval for Asian Call Option with $K = 90$,
[11.165893, 11.261295]

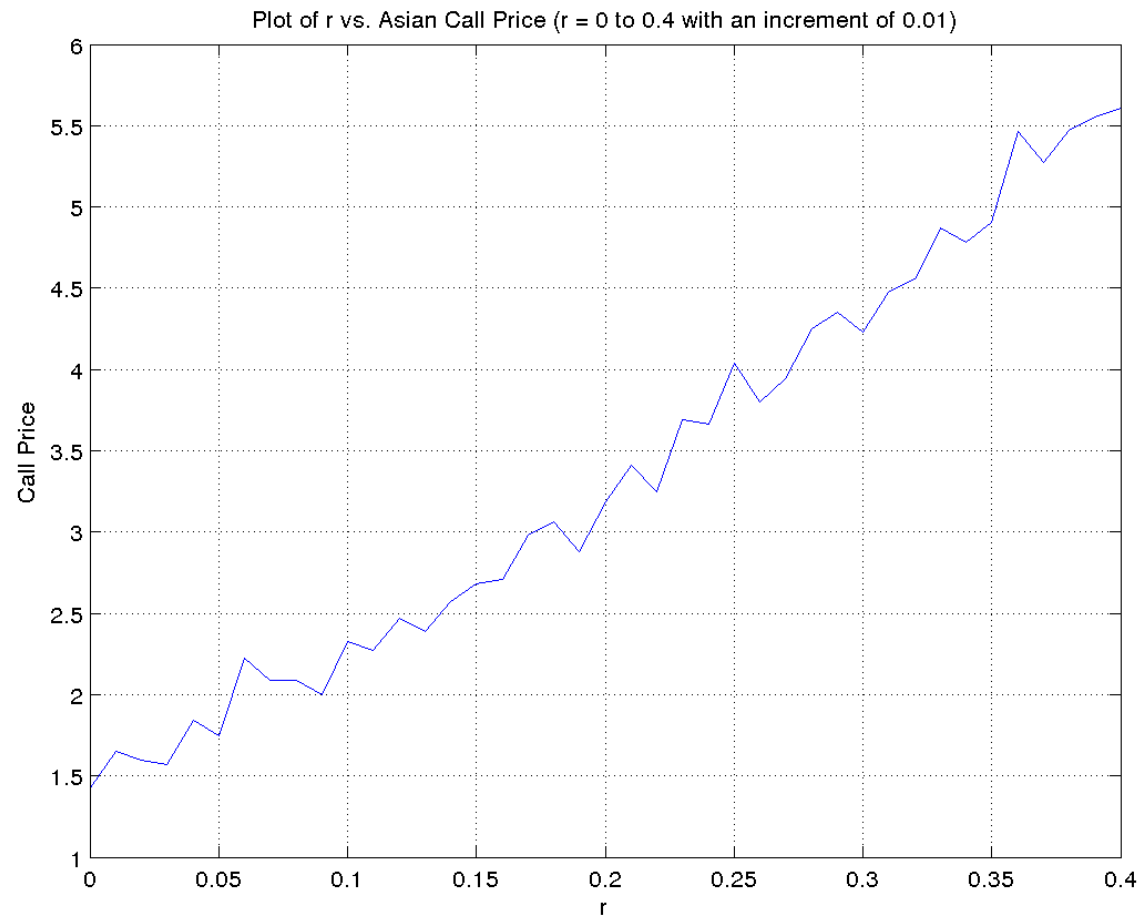
95% Confidence Interval for Asian Put Option with $K = 90$,
[0.243764, 0.258083]

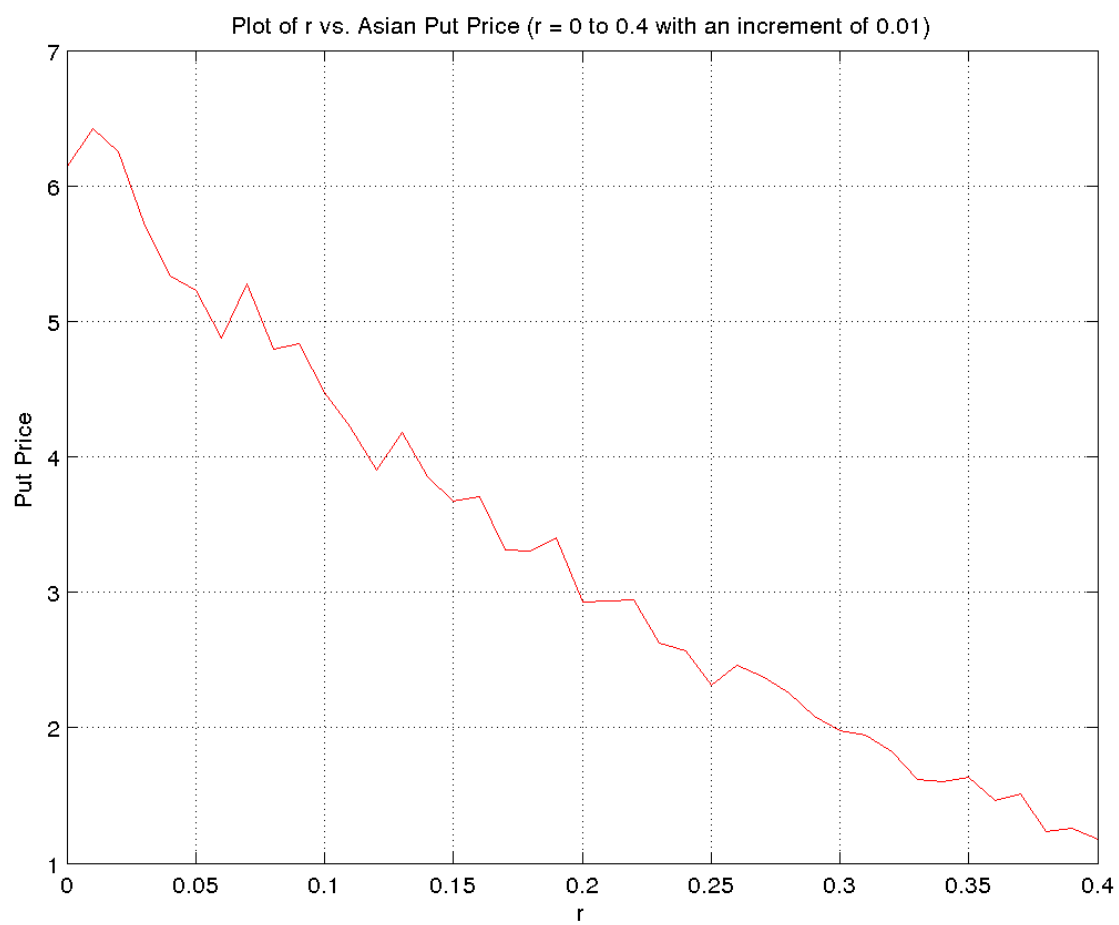
Sensitivity Analysis:- Varying S_0 :-



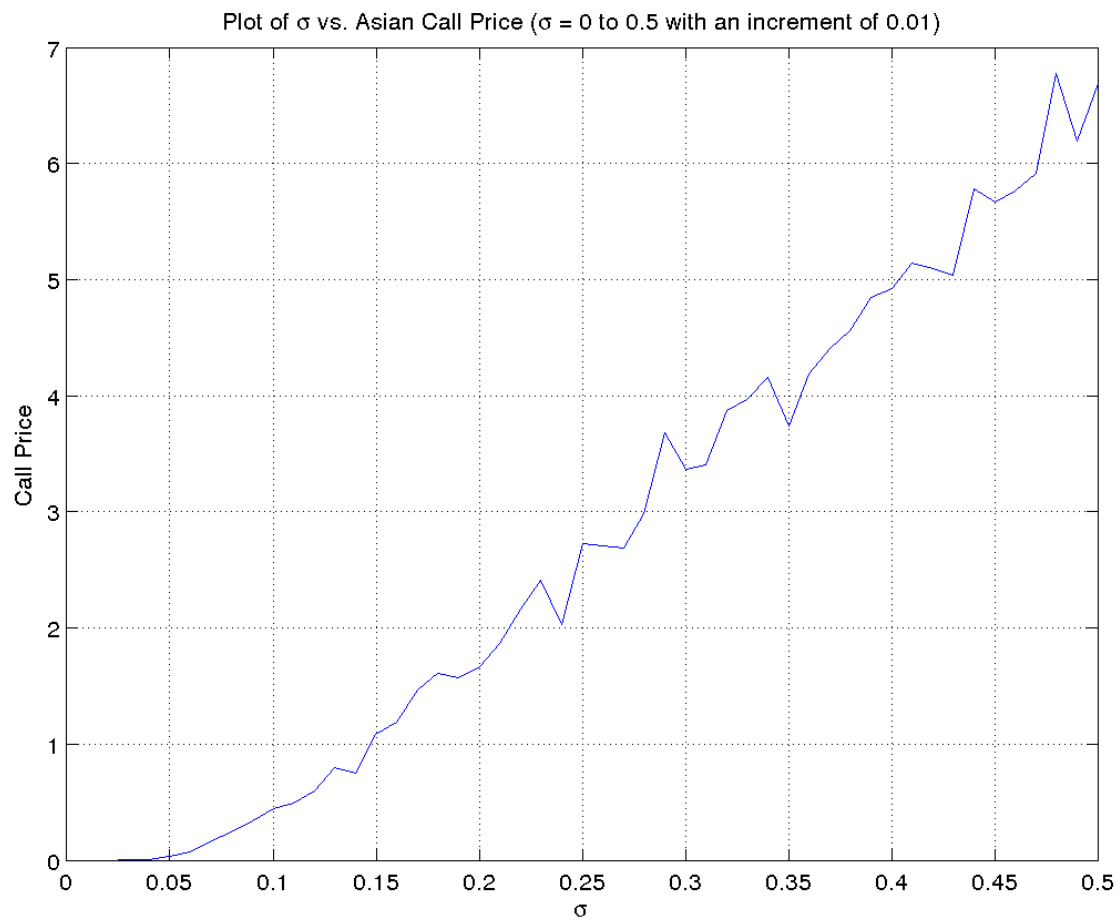


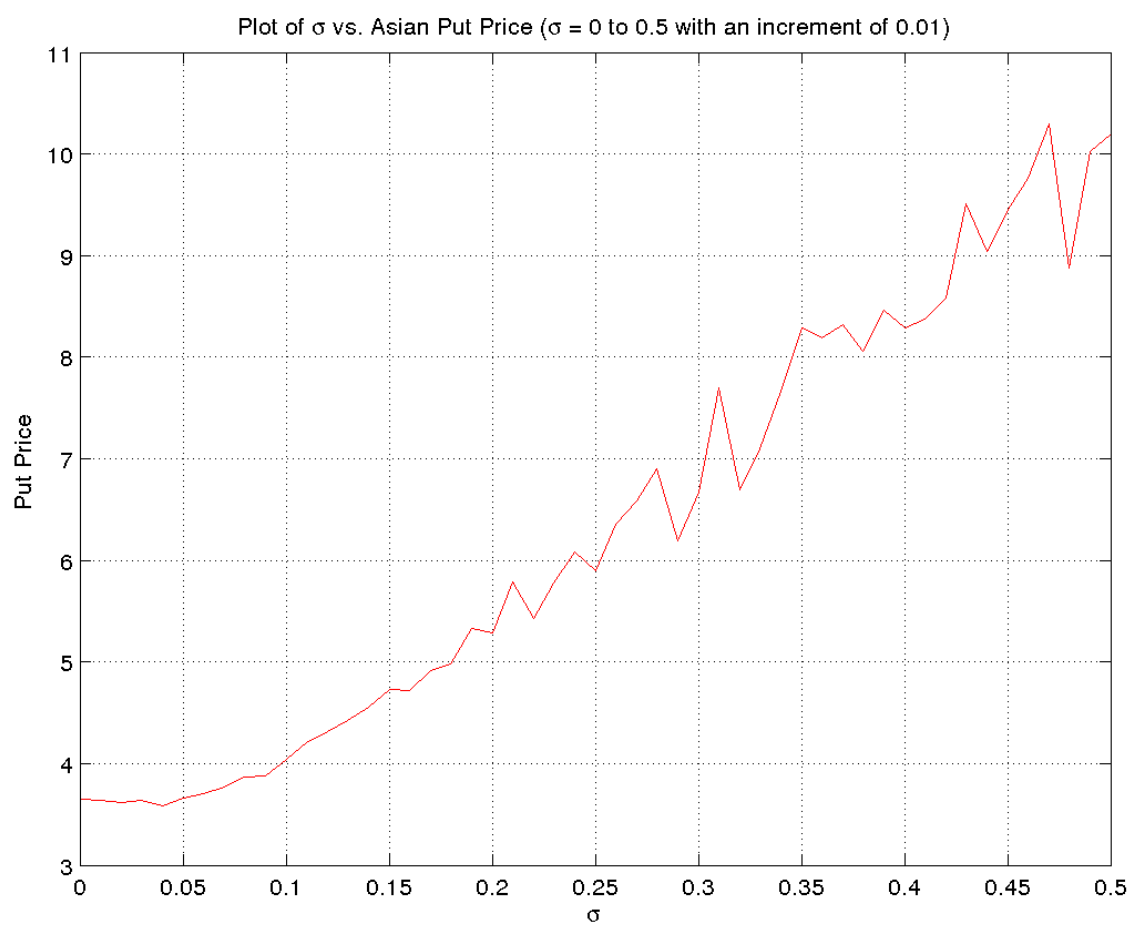
Varying r:-



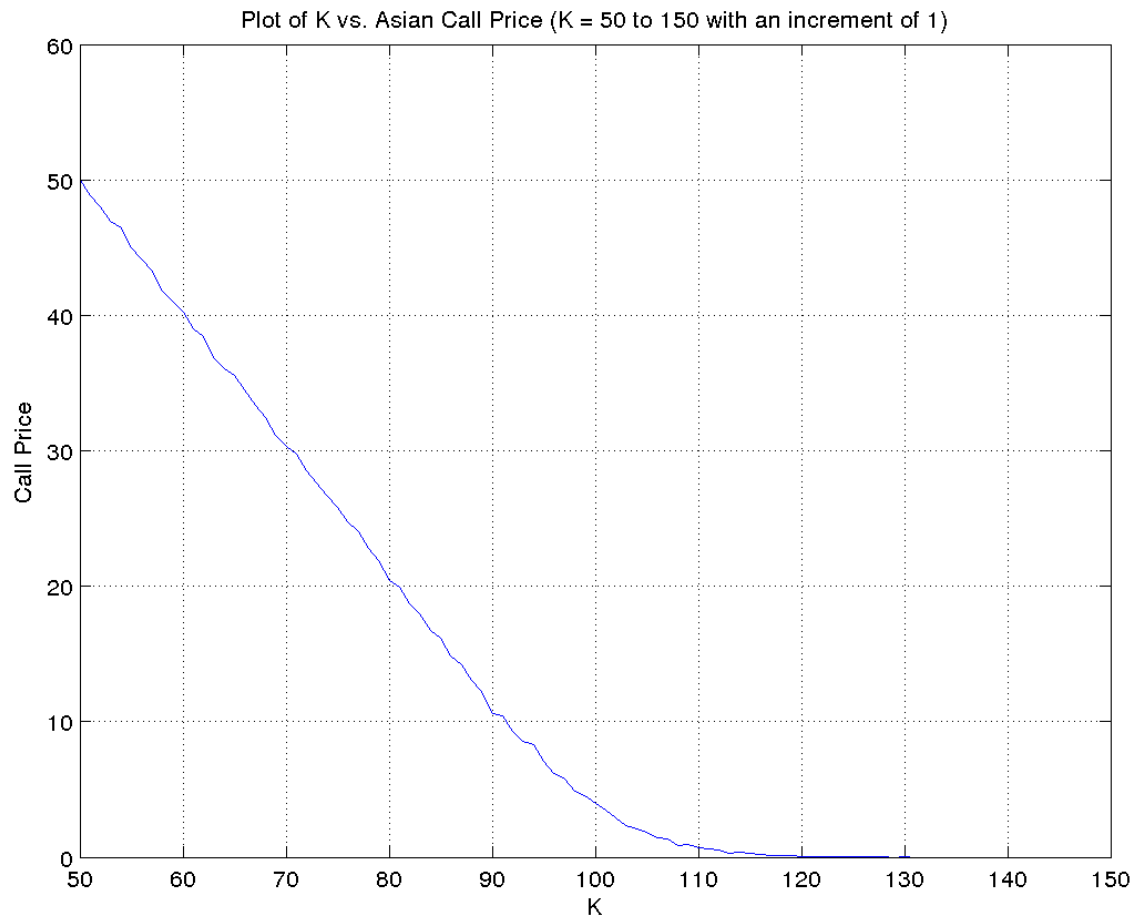


Varying σ :-

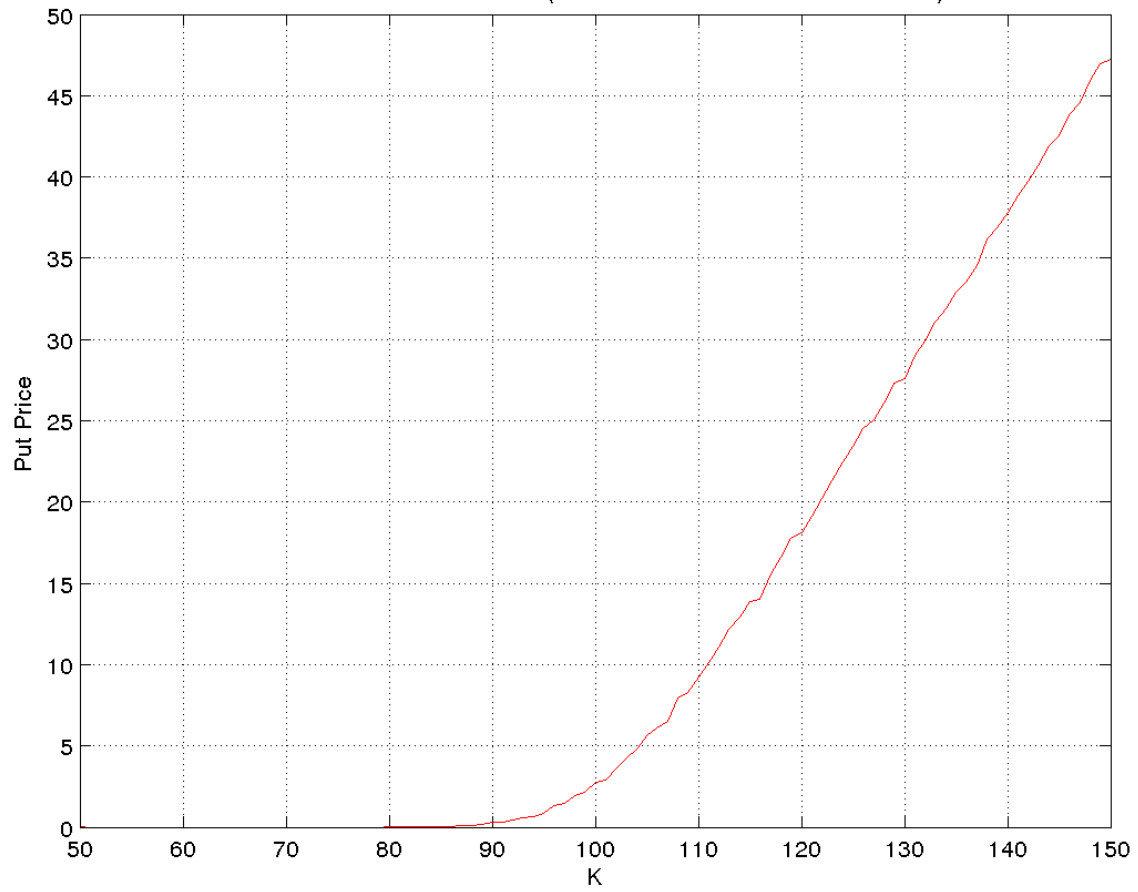




Varying K:-



Plot of K vs. Asian Put Price (K = 50 to 150 with an increment of 1)



Varying T:-

