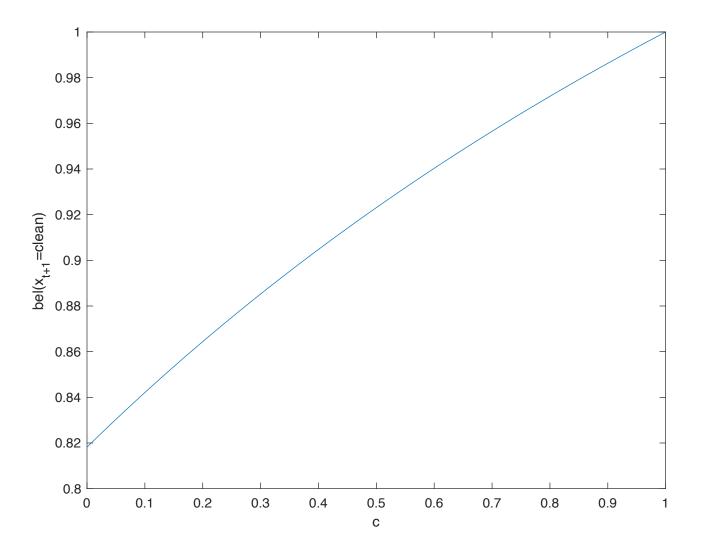
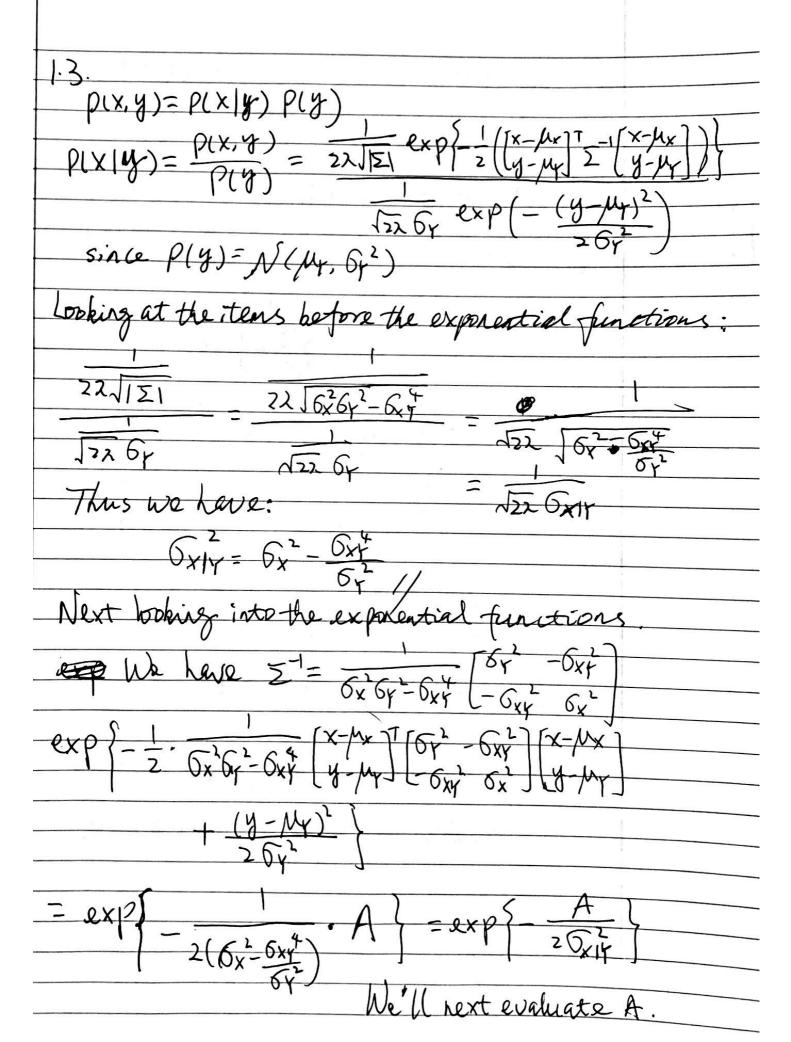
P(x+=clean) = C. P(x+=dirty) = 1-C Take action U+1=act.	
Take action Ut+ = act.	
bel (Xt+1=clean)	1 1
= P(X+1=clean U+1=act, X+=clean) bel(X+=	=clean)
+ P(X++1= clean Utri = act, X= divty) bed ((+=dirty)
= C + 0.6(1-C) = 0.4C + 0.6	
the state of the s	- A
bel (X+1= dirty)	
= P(X++)=dirth\11++=a++ N==(==)	
= P(X+1=dirty/U+1=act, X+=clean) bel (X+	= clean)
+ P(X++ = dirty U++ = act, X+=dirty	Y). 6x=dirty
= 0 + 0.4(1-c) = 0.4(1-c)	
Incorporating the measurements:	
bel(X++=clean)	
)
= 1) P(Z++1=clean X++1=clean) bel(X++1=clean)	in
= no.6 (0.4C+0.6) = n(0.24C+0.36)	
Join (1-1-1-10) = J(1-2+0-10.76)	
bel (X++1 = dirty)	
= 1) P(Z++1 = clean X++1 = dirty) bel (X++1= a	ivty)
= n 0.2 + 0.4(1-c) = n0.08(1-c)	
- J 0 2 1 0 4 (1 C) - J 0 100 CT C)	
1======================================	
J= 0.08(1-c)+0.24c+0.36 0.16c+0.44	
p(X+1=clean Z+1=clean) = 0.24+0.36	





$$A = \begin{bmatrix} x - \mu_{x} \\ y - \mu_{y} \end{bmatrix} \begin{bmatrix} -\frac{G_{x}^{2}}{G_{y}^{2}} \end{bmatrix} \begin{bmatrix} x - \mu_{x} \\ 0 \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} x - \mu_{x} \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} x - \mu_{x} \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} x - \mu_{x} \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} x - \mu_{x} \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} x - \mu_{x} \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} x - \mu_{x} \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} x - \mu_{x} \\ 0 \end{bmatrix} \begin{bmatrix} x - \mu_{$$

2.2 Gaussian Process Predictions

Plot using the default parameters.

