ROB 313 Assignment 3

 $Q[2,A, \hat{\xi}(x^{(i)}) w] = 1 \qquad \gamma^{(i)} = 0$ $|09|_{P_{r}}(y|w||x) = \frac{2}{2}y^{(i)}|09|_{\hat{\xi}(x^{(i)})}w|) + (1-y^{(i)})|03|_{1} - \hat{\xi}(x^{(i)})|w|)$ $= \frac{2}{121}y^{(i)} |09|_{\hat{\xi}(x^{(i)})} + (1-y^{(i)})|03|_{1} - \hat{\xi}(x^{(i)})|w|$ $= \frac{2}{121}y^{(i)} |09|_{\hat{\xi}(x^{(i)})} + (1-y^{(i)})|09|_{1} = 0$

This is not reasonable behaviour since the 109-likelihood blows-up to negative infinity and could cause numerical issues.

B. Prior: Pr(w)=N(w10, 02I)

(D)

(MRH = Mx - M Julia/Pr(x1m,X))+101(Pr(m)))

= Wx-n 2(y)-f(x); w)[1,x), x)[1,x) wollows of the

5GP since prediction on only the render somme see