$$S_{0}(t) = -1$$

 $S_{1}(t) = 4$
 $R = 1.8$

$$w(n) H_0$$

$$w(n) H_0$$

$$w(n) H_0$$

$$R = 9(+) + \text{moise}$$

$$W(R|H_0) = \frac{1}{\sqrt{|z_1|}} \cdot e^{-\frac{(R+1)^2}{2\sqrt{2}}} = \frac{1}{2\sqrt{|z_1|}} \cdot e^{-\frac{(R+1)^2}{8}}$$

$$W(R|H_1) = \frac{1}{2\sqrt{|z_1|}} \cdot e^{-\frac{(R+1)^2}{8}}$$

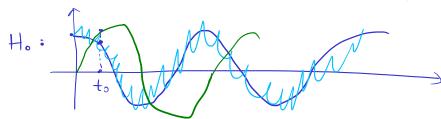
b.
$$1.8 > 1.5 = 0 D_{\perp}$$

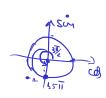
$$W(R|H_{1}) \Big|_{R=1.8} > W(R|H_{0}) \Big|_{R=1.8}$$

$$d(1.8,4) < d(1.8-1) = 0 D_{\perp}$$

$$S_{c}(t) = cos(2\pi t) = 2f = 1$$

$$S_{c}(t) = sim(2\pi t) = 2f = 1$$





Pg=35

$$\#_{0}$$
: $S_{0}(t_{0}=0.75) = CDS(S_{0}(0.75)) = C$

$$H_1:$$
 $S_L(t_0=0.7s) = Sin(2.11-0.75) = Sin(1.511) = -1$

