(2) 
$$l = L_{4,-1} \leftarrow L_{m,b}$$
  
(a)  $f: l \rightarrow lR$   
 $f(x, 4x-1) = \sqrt{1+4^2} \times = \sqrt{17} \times (b) + (-1,-5) = -\sqrt{17}$   
 $f(2,7) = 2\sqrt{17}$ 

$$\widehat{3} \quad \downarrow = {}_{2} \sqcup_{5} = \left\{ (x,y) \in \mathbb{H} | \left| (x-2)^{2} + y^{2} = 5^{2} \right\}$$

$$P = (2,5) \quad \text{and} \quad Q = (-1,4)$$

$$d_{\mu}(P,Q) = \left| \left| \ln \left( \frac{2-2+5}{5} - \frac{1-2+5}{4} \right) \right| = \left| \ln \left( \frac{1}{\frac{2}{4}} \right) \right| = \left| \ln (2) \right|$$

$$= \left| \ln (2) \approx \left[ 0,693 \right| \dots$$

$$\begin{array}{c} (4) \\ (4) \\ (4) \\ (5) \\$$

$$f(x,y) = 2 \times f(p) = f(1,\sqrt{3}) = 2 \cdot 1 = 2 f(q) = f(-1,-\sqrt{3}) = -2 Want g(p) = 0 and g(q) > 0. Set g(x,y) = - [f(x,y) - f(p)] = - f(x,y) + 2 = -2 \times +2$$

So,  $g(P) = g(1,\sqrt{3}) = -2(1) + 2 = 0$  $g(Q) = g(-1,-\sqrt{3}) = -2(-1) + 2 = 4 > 0$ .

5 À See HW1-problem 8. (B) See HWZ-problem 8.