-0 

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0 0 

BBBBBB

1 4

take gime its domain is upon and not dused

a ni vention ton di 7 C D is cosed and bounded

IF & y so O is grapher to is nothing solo

$$f'_{x}(x,y) := \frac{x}{(1-x^{2}-y^{2})} \Rightarrow f'_{y}(x,y) := 0 \Rightarrow x := 0$$

$$f'_{y}(x,y) := \frac{y}{(1-x^{2}-y^{2})} \Rightarrow f'_{y}(x,y) := 0 \Rightarrow y := 0$$

$$\Rightarrow f'y^{2}(x,y) = \frac{x^{2}-1}{(1-x^{2}-y^{2})^{1/5}}$$

$$H(x,y) = \begin{vmatrix} f_{x^2}(x,y) & f_{xy}(x,y) \\ f_{xy}(x,y) & f_{y^2}(x,y) \end{vmatrix} \Rightarrow H(0,0) = \begin{vmatrix} -1 & 0 \\ 0 & 1 \end{vmatrix}$$

(c,c) to xam

$$\Rightarrow H(\lambda^{1/2}) = \begin{vmatrix} \cos x & 0 \\ -\lambda^{2} \cos x & \cos x \end{vmatrix} \Rightarrow H(\lambda^{1/2}) = 0 - \cos^{2}(\lambda^{1/2}) = -(-1)^{2} = -1$$

critical pts:

-15

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E .

BPPP

extern I ANS P.

$$\sum_{i=1}^{n} \frac{1}{x(i)} = \frac{1}{x(i)} = \sum_{i=1}^{n} \frac{1}{x(i)} = \sum_{i=1$$

we see that Ps, Po, Po, Pt are at the edges of AD, B( therefore we need to dreek only internal pro:

$$ho: \begin{cases} \lambda(f) = f & \text{if } f \in \frac{1}{h} \Rightarrow f(f) = 3\cos f \Rightarrow f'(f) = -3\sin f \\ \cos f(f) = f & \text{if } f \in \frac{1}{h} \Rightarrow f(f) = 3\cos f \Rightarrow f'(f) = -3\sin f \end{cases}$$

$$\Rightarrow -3 \sin t : 0 \Rightarrow t : 0 \Rightarrow \max \left( \frac{\log t}{\log t} \right)$$

$$\Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \Rightarrow \left( \frac{1}{2} \times \frac{1}{2} \right) = \frac{1}{2} \times \frac{1$$

absolute min and max:

(6.9)	11= (5)	P2: (2, 7)	P= (1.2)	P1 (3, 1)	(s= 6 d)	Po (1, 7	1 6 13 7	9:(10)	Pg= (3,0)
+4.9)	4	٦٢.	4	<u>.</u>	٦Γι	3/2	Ž.	3	3
	CARTAGE		VPR grafe	will some		دمه ای در	Morne		
	1537		(1,8)	(3,0	(	1.5)	(3:8)		

3) no it speaks about the morte longthen surry defect and sanded, and have tre

$$\frac{\Delta t(x^2)^2}{\Delta t(x^2)^2} = \lambda t(x^2)^2 + \lambda$$

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