ВЗ № 3. прощворите дпутичие импорым Mounap 8. 1 harines aracro onpegliculul gryrregues 2 = 11-x3 + en(y2-1) ENEXPERSON) V1- X3 30 yd-1>0 1-x3=0 42>1 13-150 [y=-1 y>1 x3≤1 X51 Ornaet onpegeneeuns $x \in (-\infty; 1]$ $y \in (-\infty; -1) \cup (1; +\infty)$ г. Полити производиеро первого поредко 2 = (f+ lnx /3 2'x = 3 . 11 + Eny 1 , (1+ Eny) 2' x = 3. lang + lax 12. I lay $\frac{2'}{x} = \frac{3}{x \operatorname{eny}} \cdot \frac{\operatorname{eny} + \operatorname{lnx}}{\operatorname{en}^{2}y}$ $\frac{2'}{x} = \frac{3}{x} \cdot \frac{\operatorname{lny} + \operatorname{lnx}}{\operatorname{ven}^{3}y}$

2 y = 3/1 + lux /2 - yeux 2/y = 3y anx / Ray + lax/2 organier orane (1,1). 2 = V2xy+cos xy $\frac{2}{x} = \frac{1}{2\sqrt{2xy + \cos \frac{x}{2}}} \cdot (2y - \sin \frac{x}{2} \cdot (\frac{v}{2}))$ $\frac{2}{x} = (2y - \frac{x}{2}) \cdot (\frac{x}{2}) \cdot (\frac{v}{2})$ 24 = 2 V2xy+cos x . (2x+f sin x//(x) $2y = -\sin\frac{1}{2} \cdot \left(-\frac{y}{y^2}\right) + 2x$ $2y = 2x + 2xy - \cos\frac{y}{y}$ $2y = \frac{x \cdot \sin\frac{y}{y} + xx}{x \cdot 2xy - \cos\frac{y}{y}}$ $dz(xy) = \frac{(xy - \frac{\sin x}{y})}{4 - \tan xy + \cos x} dx + \frac{(2x + \frac{x \cdot \sin y}{y})}{2 - \tan xy + \cos y}$ $dz(1/1) = \frac{(xy - \frac{\sin x}{y})}{2 - \tan xy + \cos y} dx + \frac{(2x + \frac{\sin x}{y})}{2 - \cot x} dy$

d2(1,1) = 2-8-17 dx + 2+ 8-18 dy ЛУ Истерований друпинения не экстренции. $z = \chi^2 + \chi y + y^2 - 6\chi - 9y$ Z = 2x + y - 6 2x+4-6=0 y = 6-2x 2 y = 2y + x - 9 dy+x-9=0 2 " = 2 dy = -x + 92 xy = 1 2. (6-2x)=9-x 2 yy = 2 12 - 4x = 9-x 2 yx = 1 3x = 3 By = 4 12 >0 4-1=3>0 Horno (1,4) - reperserence romas, ne quespecience.