Гена Производные дуничей пескольких перенениях с 1. Кай те область обреденения функция 2=V1-x3+(n(y2-1)  $\begin{cases} 1-x^{3} > 0 \\ y^{2} - 1 > 0 \end{cases} = > \begin{cases} x \le 1 \\ (y > 1) \cup (y < -1) \end{cases}$ 2. Maite apoughoghere 1-re nopegua grynnesseel  $z = \left(1 + \frac{(a \times k)^3}{(a \cdot q)^3}\right)$ = 3 (1+ \(\lambda x)^2 \) \frac{1}{\text{lug}} = 3 (1+ \(\frac{2\ar}{\text{lug}} + \frac{2\ar}{\text{lug}} + \(\frac{\text{lux}}{\text{lug}} \)) \frac{1}{\text{lug}} = \(\frac{3\lambda^2 y + 6\lambda^2 x \lambda \text{lug} + 3\lambda^2 x}{\text{lug}} = 3 (1+ \frac{\lax}{\lag{y}})^2 (-\frac{\lax}{\lag{y}}) \frac{1}{y} = -\frac{3\lax}{y\lag{u}^2y} \left( \frac{\lag{u}^2y + 2\langle u \lag{u} + \lag{u}^2x}{\lag{u}^2y} \left) = -\frac{3\langle u \langle u \lag{y} + 6\langle u \lag{u} \lag{y} + 6\langle u \lag{u} \lag{y} + 3\langle u \lag{y} 3. Насти полный дир ререшиная дуписьми в тогне (1,1) 2 = 12xg+ cos x  $\frac{2y - \frac{siq \frac{x}{y}}{y}}{2\sqrt{2xy + \cos \frac{x}{y}}} = \frac{2y^2 - siq \frac{x}{y}}{2y\sqrt{2xy + \cos \frac{x}{y}}}$ 2x = ((2xg+cos x) =) = 1 = (2y-sin x 1) = 29 = ((2xy+cos\frac{x}{y})\frac{1}{2}) = \frac{1}{2\V2xy+cos\frac{x}{y}}\left(2x-sin\frac{x}{y}\left(-\frac{x}{y^2}\right)) = \frac{2xy+x\cdot sin\frac{x}{y}}{2\V3xy+cos\frac{x}{y}} 24° V2xy+cos x  $d^{2}(1,1) = \frac{2 - \sin t}{2\sqrt{2 + \cos t}} + \frac{2 + \sin t}{2\sqrt{2 + \cos t}} = \frac{2}{\sqrt{2 + \cos t}}$ h. Heczegolar na merpereyn grynkiseno. Z=1+xy+g2-6xg-99 

 $Z_{x} = 2x + g - 6 = 2$   $\begin{cases} 2x + g - 6 = 0 \\ 2y + g - 6 = 0 \end{cases} = 2$   $\begin{cases} y = 6 - 2x = 2 \\ x = g - 2y \end{cases}$   $\begin{cases} 2y + g - g = 0 \\ x = g - 2y \end{cases} = \begin{cases} 2 & 1 \\ 1 & 2 & 1 \\ 2 & 2 \end{cases} = 3 > 0 \Rightarrow 2ne \text{ in pengal ects}$   $Z_{xx} = 2 > 0 \Rightarrow 70 \ge \text{Ke minurey up} (1, 4)$