Angpeel J.C. 498-71 Bap. 3. Ucchegobar ha skerppnym

gynkynjo:  $y'=y(x-1)^3$ N 1416/ Kangery Juak poyl. & exp. Xo: 1 7 Xo = 1 - TOTKE EXPORORO MUNICIPAGE N 1447/ Kagry want. и наски. значения ф-ии: f(x) = 1x2-3x+2/ na [-10; 10]

4=x2-3x+2 y=(x2-3x+2) Mun. jaca?. = 0  $(x^2-3x+2)'=2x-3=>$  mununyy  $\phi-uu$   $y=x^2-3x+2$  6 r,  $\frac{3}{2}$ Due 1020, 2708t naviry Make. 34. Tpesyeras epabnur Torky: 1-10; 5; 109 f(-10) = 132 f(3/2) = 1/4 f(3/2) = 1/4 f(3/2) = 1/4 f(3/2) = 1/4 f(3/2) = 1/44 f(10) = 72 Orber: Min f(x) = 0  $\max f(x) = 132$ 

[N 3623] Ucen. na akcrpenym:  $2 = (x - y + 1)^2$  $\frac{1}{2x} = 2(x-y+1) \qquad \begin{array}{c} 2x - 2y + 2 = 0 \\ -2x + 2y - 2 = 0 \end{array}$ Zy = -2(x-y+1)uz 1 y = x+1. Jiogerabum bo 1: -2x +2x +2-2 = 0

god encremo nes peurenna =>
> nes oxesperymol. N3656/ Habru vorku yor. skerpenyma  $Z = x^2 + y^2$ , ecrus  $\frac{x}{a} + \frac{y}{b} = 1$ . fA Ф. Лагранна: F(x,y) = x2+y2+ 2( = + = -1)  $\frac{\partial F}{\partial x} = 2x + \frac{\lambda}{\alpha} = 0 \implies x = \frac{\lambda}{2\alpha}$   $\frac{\partial F}{\partial y} = 2y + \frac{\lambda}{\beta} = 0 \implies y = \frac{\lambda}{2\beta}$ (P(x,y) = x + + -1=0

 $-2a^{2}b^{2}, x = ab^{2}, y = a^{2}b$   $-2a^{2}b^{2}, x = ab^{2}, y = a^{2}b$   $a^{2}+b^{2}, x = a^{2}b^{2}, y = a^{2}b$  $H = -\frac{1}{6}(\frac{2}{6}) + \frac{1}{6}(\frac{2}{6}) = \frac{2}{6^2} - \frac{2}{6^2}$ =>  $\delta$  T.  $\left(\frac{ab^2}{a^2+b^2}, \frac{a^2b}{a^2+b^2}\right)$  naxogatice yes. min