MINITEST HLEDAY EXPENS OF HIRAUCI

$$f(x_1y) = 3x - 4y + 23$$
  
 $g(x_1y) = x^2 + 2y^2 + 17 = 0$ 

Vocabilha melade:

$$\partial_x f = 3 \qquad \partial_y g = 2x \qquad = 3$$

$$\partial_y f = -4 \qquad \partial_y g = 4g$$

$$2 + 2 + 3 + 3 + 3 = 0$$

$$12 + 3 + 3 + 3 = 0 \Rightarrow x = -\frac{3}{2} = 0$$

$$x^{2} + 2 + 2 = 0 \Rightarrow x = -\frac{3}{2} = 0$$

$$\frac{9}{4}x^{2} + 2y^{2} + 17 = 0$$

$$9x^{2} + 8y^{2} + 17 \cdot 4 = 0$$

$$17y^{2} + 17 \cdot 4 = 0$$

$$J^{2} = 4$$

$$J_{1}^{2} = 4$$

$$J_{1}^{2} = 4$$

$$J_{1}^{2} = 4$$

$$X_{1}^{2} = 3$$

$$X_{1} = 3$$

$$X_{2} = 3$$

=) SERIMAN KANDANTO  

$$f(3_1-2) = 9 + 8 + 23 = 40$$
 MAX  
 $f(-3;2) = -9 - 8 + 23 = 6$  MIN

Mobida Lagrongeorgeh mulleplikkou : 1.140  $=) \frac{1}{1} \frac{3+21}{1+1} \times = 0$   $=) \frac{1}{1} \frac{3+21}{1+1} \times = 0$  = 0 = 0 = 0 = 02+ +12g=0  $\rightarrow x = -\frac{3}{24}$ 2f +12g=0 q=0 1. 4+0  $= -\frac{3}{2}$   $y = +\frac{1}{4}$   $y = +\frac{1}{4}$ 1 A= 2 (A= = 2)  $x_1 = -3$   $x_2 = 3$   $y_1 = 2$   $y_1 = -2$ RELOR MUSINE JESTE DISHOTOVAT

2.  $A = 0 \longrightarrow 3 \ne 0$  ... MOTHEREDA! f(-3;2)=6 f(3;-2)=60