



$$f(x, y) = \frac{x^2}{9} + \frac{y^2}{4}$$

$$x_7 = 0.401565$$

$$y_7 = -0.016113$$

$$\nabla f(\cdot) = (0.089237, \\ -0.008057)$$

$$\alpha_7 = 3/8$$

$$\sqrt{x_7^2 + y_7^2} = 0.401888$$