



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

$$x_7 = 0.001317$$

$$y_7 = -0.001040$$

$$\nabla f(\cdot) = (0.000293, \\ -0.000520)$$

$$\alpha_7 = 2.308219$$

$$\sqrt{x_7^2 + y_7^2} = 0.001678$$