



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

$$x_7 = 0.688730$$

$$y_7 = 0.007813$$

$$\nabla f(\cdot) = (0.153051, \\ 0.003906)$$

$$\alpha_7 = 1$$

$$\sqrt{x_7^2 + y_7^2} = 0.688774$$