



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

$$x_9 = 0.340834$$

$$y_9 = -0.010910$$

$$\nabla f(\cdot) = (0.075741, -0.005455)$$

$$\alpha_9 = 3/10$$

$$\sqrt{x_9^2 + y_9^2} = 0.341009$$