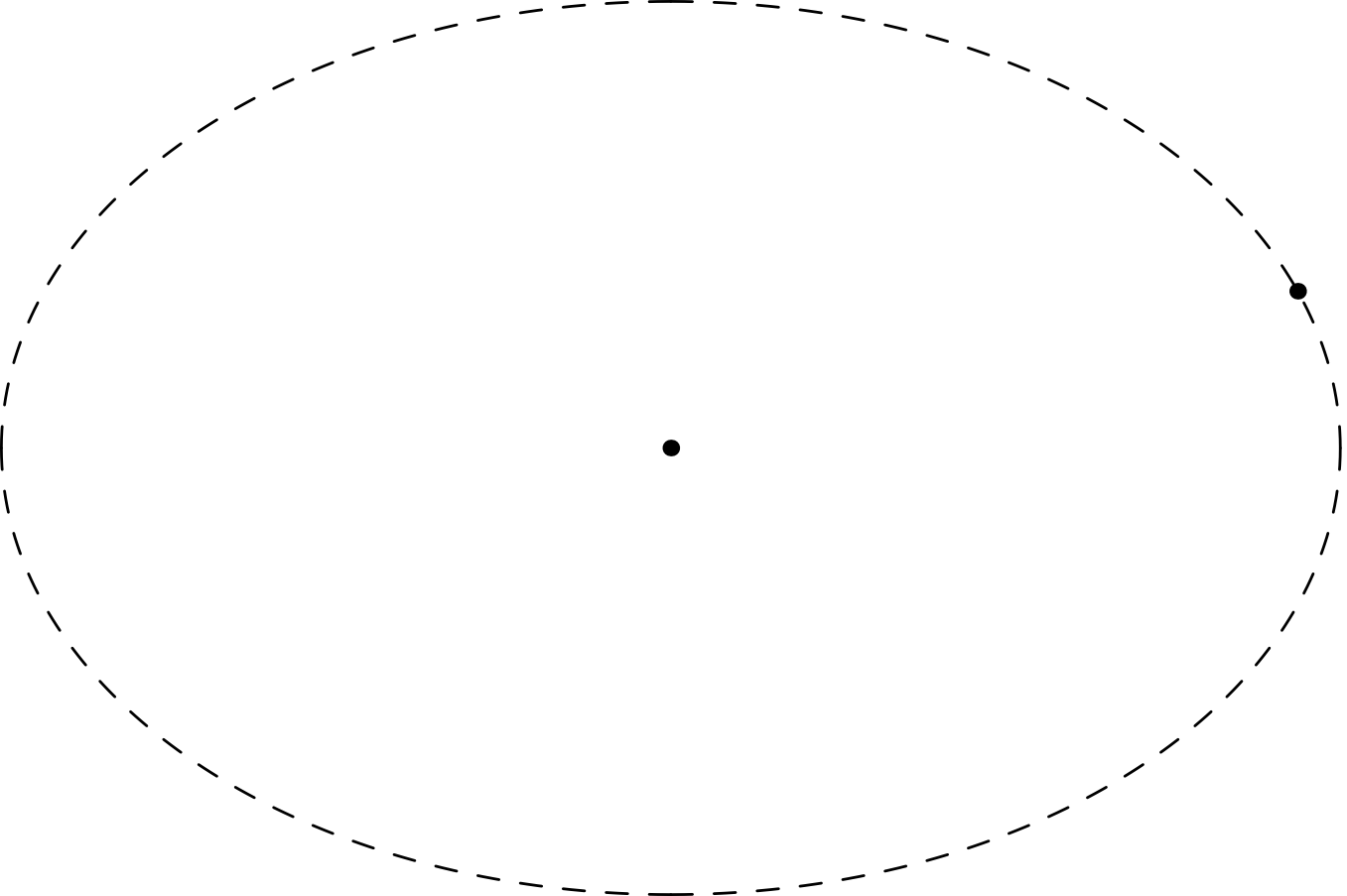

$$f(x,y) = \frac{x^2}{9} + \frac{y^2}{4}$$
$$x_0 = 4.000000$$
$$y_0 = 1.000000$$
$$\nabla f(\cdot) = (0.888889, 0.500000)$$
$$\alpha_0 = 3.460354$$
$$\sqrt{x_0^2 + y_0^2} = 4.123106$$