

2010 解析学 略解

$$[1] \quad \frac{\pi}{2}$$

$$[2] \quad f(x, y) = (x - y) \cos^{-1}(xy) + \frac{\pi}{2}$$

$$[3] \quad (2, 2) \text{ で極小値 } -16$$

$$[4] \quad \frac{5}{16}(\pi - 2)$$

$$[5] \quad \frac{\sqrt{3}}{9}\pi$$

$$[6] \quad y^2 = \frac{1}{2(x+1) + C(x+2)^2} \quad (C \text{ は任意定数})$$