



$$u(x,y) = -20$$

$$\lambda = \begin{cases} 10 \\ 1 \end{cases}$$

$$\gamma = 0 \quad \beta = 2$$

$$f(x,y) = 10x + 4y$$

$$I_0 = y^2$$

$$II_0 = 20$$

$$II_1 = 0$$

$$III_0 = 20y - 27$$