$$u(x,y) = 10x + 10y$$

$$\lambda = 4 \quad \gamma = 2 \quad \beta = 5$$

$$f(x,y) = 20x + 20y$$

$$I_0 = 50 + 10y$$

$$II_0 = -40$$

$$II_1 = 40$$

$$III_0 = 10x + 2$$