



Провести классификацию следующих уравнений:

$$\frac{\partial^2 u}{\partial t^2} + \frac{\partial^2 u}{\partial x^2} + \frac{\partial u}{\partial x} = e^{-kt}$$

$$\frac{\partial^2 f}{\partial x^2} - \frac{\partial^2 f}{\partial x \partial y} + \frac{\partial f}{\partial y} = 4$$

$$\frac{\partial^2 f}{\partial x^2} - 2 \frac{\partial^2 f}{\partial x \partial y} + 5 \frac{\partial^2 f}{\partial y^2} + \frac{\partial f}{\partial y} = 0$$