$$\times \frac{9x}{95} - \lambda \frac{9\lambda}{95} = 5_5 (x - 3\lambda)$$

he write the so-colled system of characteristics:

$$\frac{x}{dx} = -\frac{\lambda}{d\lambda} = \frac{5_5(x-3\lambda)}{45}$$

$$\frac{dx}{x} = -\frac{dy}{y} \implies \ln|x| = -\ln|y| + \widetilde{c}_1 \implies x \cdot y = c_1 , c_1 > 0$$

$$\frac{dx + 3dy}{x - 3y} = \frac{dz}{z^2(x - 3y)} \implies x + 3y = -\frac{1}{z} + cz \implies c_2 = x + 3y + \frac{1}{z}$$

Then
$$x + 3y + \frac{1}{2} = f(x \cdot y)$$
 ; $z = \frac{1}{f(xy) - x - 3y}$

We have that x=1 when y2+1=0.

If
$$y = -\frac{\Lambda}{2}$$

$$c_2 = \Lambda + 3y - y = \Lambda + 2y$$

$$c_2 = \Lambda + 2y$$

Substituting
$$xy = c_1$$
 and $x + 3y + \frac{1}{2} = c_2$ we get

$$x + 3y + \frac{1}{t} = 1 + 2xy$$