

۱۳۹۵۰۴ فروردین ۲۰۱۶

$$\frac{\partial z}{\partial y} e^{(x+2(x+y))} f_u + (1 + \frac{\partial z}{\partial y}) f_v = 0 \Rightarrow \frac{\partial z}{\partial y} = \frac{-f_v}{uf_u + f_v}$$

$$\Rightarrow \frac{\partial z}{\partial x} + \frac{\partial z}{\partial y} = \frac{-uf_u}{uf_u + f_v} + \frac{-f_v}{uf_u + f_v} = -1 \quad (۱)$$