

$$d / \cancel{\ln}(e^{\alpha+1}) = e^{\alpha+1} + \alpha$$

$$\Leftrightarrow \alpha+1 = e^{\alpha+1} + \alpha$$

$$\Leftrightarrow \cancel{\alpha+1} - \cancel{\alpha} = e^{\alpha+1}$$

$$\Leftrightarrow e^{\alpha+1} = 1$$

$$\Leftrightarrow \cancel{\ln}(e^{\alpha+1}) = \ln 1 \Leftrightarrow \alpha+1 = 0$$

$$\Leftrightarrow \alpha = -1$$
