## Tenaa S - Nh 2

$$(\alpha) \begin{cases} \widehat{x} + \widehat{4y} = \widehat{1} \\ \widehat{s} + \widehat{7y} = \widehat{1} \end{cases} \quad \widehat{a} \quad \mathbb{Z}_g$$

$$(9,9)=1=)$$
  $G \in Z(Z_9)$ 

$$\hat{\mathcal{L}} = \hat{1} - \hat{4} = -\hat{3} = \hat{6}$$

$$(\hat{x}, \hat{j}) = (\hat{b}, \hat{\gamma})$$

b) 
$$\begin{cases} 1\widehat{7}\widehat{x} + 1\widehat{1}\widehat{q} = \widehat{q} \\ \widehat{7}\widehat{3}\widehat{x} + 1\widehat{0}\widehat{q} = \widehat{8} \end{cases}$$
  $\widehat{C}_{2g} = 0$ 

$$\begin{cases} 1\widehat{7}\widehat{x} + 1\widehat{0}\widehat{q} = \widehat{8} \end{cases} = 0 \qquad \widehat{C}_{2g} = 0$$

$$\begin{cases} 1\widehat{7}\widehat{x} + 1\widehat{0}\widehat{q} = \widehat{3} \end{cases} = 0 \qquad \widehat{C}_{2g} = 0 \qquad \widehat{C}_{2g} = 0$$

$$\begin{cases} 1\widehat{7}\widehat{x} + 1\widehat{0}\widehat{q} = \widehat{3} \end{cases} = 0 \qquad \widehat{C}_{2g} = 0 \qquad \widehat{C}_{2g} = 0$$

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 $(\widehat{x},\widehat{z}) = (\widehat{g},\widehat{z})$