Duy Mhan Cao

2.5

$$log_q(a)$$
 is even $\Leftrightarrow log_q(a) = ak (k \in \mathbb{F}_p)$

$$\Leftrightarrow g^{\log_q(a)} = g^{2K}$$

$$\leftrightarrow$$
 $\alpha = 9^{2k}$