QUIZ 3

Consider the elliptic curve E defined over $\mathbb{F}_{97}$ by the equation:

$$E: y^2 = x^3 + 2x + 3$$

Let $P = (20, 34)$ on the curve. The order of P is $n = 50$.

Let $Q = (44, 20) \in \ <P>$. By using Pohlig Helman attack, find l such that $lP = Q$.