

Student Number: XXXXXXXXXXName: Bryan Hoang6. (10 points) **Answer:**Computing multiples of  $P$  in  $E(\mathbb{F}_5)$  gives:

$$\begin{aligned}P &= (4, 2), \\2P &= (3, 4), \\3P &= (2, 4), \\4P &= (0, 4), \\5P &= (0, 1) \\&= Q, \\ \Rightarrow \log_P(Q) &= 5.\end{aligned}$$