

Problem 2

| # | PLAINTEXT | CIPHERTEXT | KEY |
|---|-------------------|-------------------|-------------------|
| 1 | 59194600180407032 | 12942396536377982 | 63858796456970950 |
| 2 | 34361210582254144 | 98414815415165653 | 64153605933911519 |
| 3 | 40424600740021112 | 85631116708328304 | 45217516068307292 |

Problem 3

1) $a = 134775813$, $b = 1$

2) Keys and the plaintexts are below

| # | CIPHERTEXT | KEY | PLAINTEXT |
|---|-------------------|-------------------|-------------------|
| 4 | 92546927083553659 | 69033316572329677 | 33513611511234082 |
| 5 | 33534183920131324 | 19061883478181378 | 24573300552050056 |
| 6 | 86922160288892598 | 57749060286588427 | 39283100002314171 |