1.

K 10 -> D 3

R 17 -> O 14

O 14 ->

N 13 ->

Y= mx+c

3 = 10a+b

14 = 17a+b

B = 3-10a

B = 14-17a

3-10a = 14-17a

7a = 11 mod 26

11\*15 = 165 mod 26 = 9

Y=9x+c

3 = 10\*9 + c

3 = 90 + c mod 26

C = 17

Y=9a+17

3=9\*10+17 mod 26

9\*14+17 mod 26 N

9\*13 + 17 mod 26 E

DONE

2.

A

X = 6 mod 7

X = 2 mod 5

N17 + N25 = 1

N1 = -2

N2 = 3

X = 2\*7\*N1 + 6\*5\*N2 mod 7\*5

X = 2\*7\*-2 + 6\*5\*3 = -28 + 90 = 62 mod 35

X = 27 + 35n for some n in Z

B

X= 6 mod 6

X = 2 mod 3

M1 = 6

M­2 = 3

C