

Math 135 (Summer 2006)
Warm-up Exercises for July 6, 2006

Recall that the numerical equivalents of the letters are as follows:

A	B	C	D	E	F	G	H	I	J	K	L	M
0	1	2	3	4	5	6	7	8	9	10	11	12
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N	O	P	Q	R	S	T	U	V	W	X	Y	Z
13	14	15	16	17	18	19	20	21	22	23	24	25

(a) Encrypt the word CORNELL using the affine cipher $E(x) = (3x + 2) \text{MOD } 26$.

(b) Encrypt the word CORNELL using the cipher alphabet determined the keyword columnar transposition substitution with the keyword RAWLINGS.

A	B	C	D	E	F	G	H	I	J	K	L	M
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N	O	P	Q	R	S	T	U	V	W	X	Y	Z