Gloire Rubambiza - MTH 312 - Assessment 2 Reflection

1. What went well

- Although it took me almost half the assessment period, I successfully enciphered and deciphered text
 using the Affine Shift cipher, especially the translation using modular arithmetic. It worth noting that,
 after deciphering text correctly, I am getting comfortable with the idea that deciphered text does not
 always have to make sense initially.
- Repeated squaring is much more intuitive to me. Realizing that every power can be written as a power of 2 solidified the concept.

2. Areas of improvement

- I got careless with the XOR operation because I was running out of time. I understand the concept, I just got carried away trying to move on to the next question.
 - Deeper connection: The XOR operation is popular because the operation easily undoes itself. In other words, a single XOR with the correct key is what is need to undo a message that was encrypted using an XOR operation.
- Similar to the XOR operation question, I rushed through the question on the ADFVGX cipher.
- To correct the carelessness, I plan to spend a bit more time on each question and reserve 5 minutes at the end of the assessment to review my work before submission.

Gloire Rubambiza 03/11/2018 MTH 312 tri Class Assessment 2 - Revision - Question 9 q-1) XOR 1110 0111 11110 10011 1010 1000 1010 1000 cipher = .0100 1111 0100 .1011

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In-Class Assessment 2- Revision-Question

5.a) Clear text: SPRING

Matching text: AGDGXAXDAAVG

B	R	٤	A	<u>K</u>
A	G	D	4	Х
A	X	D	A	A
V				

Encrypted: GAAAVDDXAGXG