

MTH 201: Calculus

Module 2A: Modular arithmetic

Prof. Talbert

GVSU

August 5, 2020

Agenda for today

- Review of Daily Prep assignment and Q+A

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- Polling activity: The % operator and modular arithmetic

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- Practice: The repeated squaring method

Q+A from Daily Prep

- Insert questions here

Modular arithmetic and the shift cipher

- ① User: Input a word to encrypt and a key K (positive integer)
- ② For each letter in the word:
 - ① Convert to number n between 0 and 25
 - ② Compute $(n + K) \% 26$
 - ③ Convert back to letter

All due dates are on the course calendar

- Start Module 2 next week
- **Complete Daily Prep 2A** by Sunday 11:59pm ET
- **Complete Startup Assignment** by **tonight** 11:59pm ET