

MATH 267 Fall 2026 - Class Notes

8/24/2026

Scribe: Name

Summary: Insert a short summary of what today's class covered. Two or three sentences is plenty — someone who missed class should be able to read this and know what the day was about.

Notes: Include detailed notes from the lecture or class activities. Format your notes nicely using latex such as

- bullets
- or
- 1. lists
- 2. of
- 3. things

or **other** formatting *commands*. Make sure to write mathematical expressions in math mode: $a \mid b$, $A \subseteq B$, $\forall x \in \mathbb{Z}$, $P \rightarrow Q$, $\{x \in \mathbb{R} : x > 0\}$.

Definitions: Every definition stated in class should appear here, word for word as we stated it. This is the part your classmates will actually come back to.

Definition 1. *An integer x is **even** if $x = 2n$ for some integer n .*

Theorems and Proofs: Use theorem environments for important results:

Theorem 1. *If x is an even integer, then x^2 is even.*

Proof. Let x be an even integer. Then there is an integer n such that $x = 2n$. Therefore $x^2 = (2n)^2 = 2(2n^2)$. Let $m = 2n^2$. Then m is an integer and $x^2 = 2m$, so x^2 is even. $\square$

Questions raised in class: If something came up that we did not fully settle — a question from a classmate, a case we ran out of time for — note it here. This is genuinely useful to the rest of the class, and to me.