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## 2.1.2 Outline Week 2

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## 2.1.2 Outline Week 2

### Opening Remarks

- Rotating in 2D
- Outline
- What You Will Learn

### Linear Transformations

- What Makes Linear Transformations so Special?
- What is a Linear Transformation?
- Of Linear Transformations and Linear Combinations

### Mathematical Induction

- What is the Principle of Mathematical Induction?
- Examples

### Representing Linear Transformations as Matrices

- From Linear Transformation to Matrix-Vector Multiplication
- Practice with Matrix-Vector Multiplication
- It goes Both Ways
- Rotations and Reflections, Revisited

### Enrichment

- The Importance of the Principle of Mathematical Induction for Programming
- Puzzles and Paradoxes in Mathematical Induction

### Wrap Up

- Homework
- Summary



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