

# Graphing Systems of Inequalities

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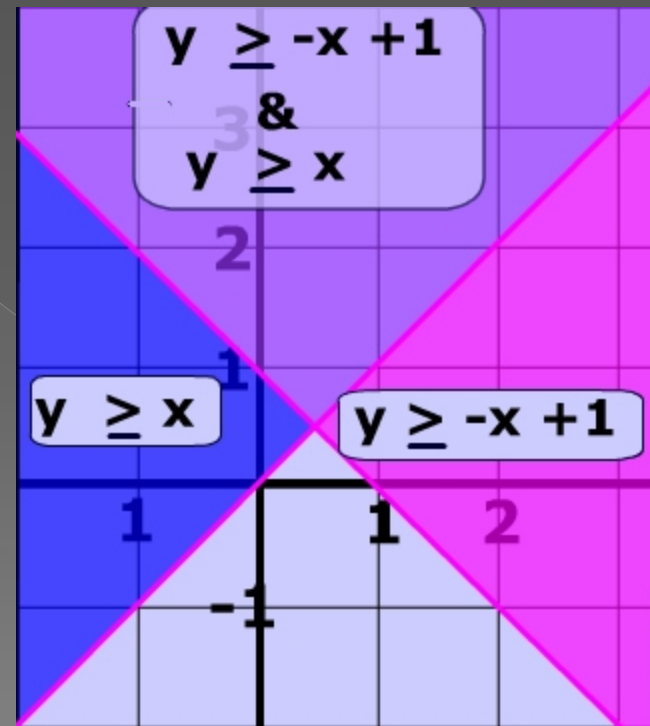
With special help from:  
Steven Broad

# Why Inequalities?

1. Indiana's Academic Standards for Algebra 1
2. Students struggle
3. Core 40

# What is a System of Inequalities?

- Two or more linear inequalities in the same variables



# What are the Goals?

- Students will be able to:
  - > Interpret the difference between solid and dashed lines
  - > Choose test points
  - > Understand what it means for a test point to be “true” or “false” and shade
  - > Understand the overlap
- Teachers will be able to:
  - > Use the demonstration to aid in lessons

# How does it work?

- ◉ Students will be provided a worksheet
  - > [Graphing Systems of Inequalities Worksheet.docx](#)
- ◉ Students will use the Mathematica demonstration to solve each system
  - > [GSI Final Version.nb](#)