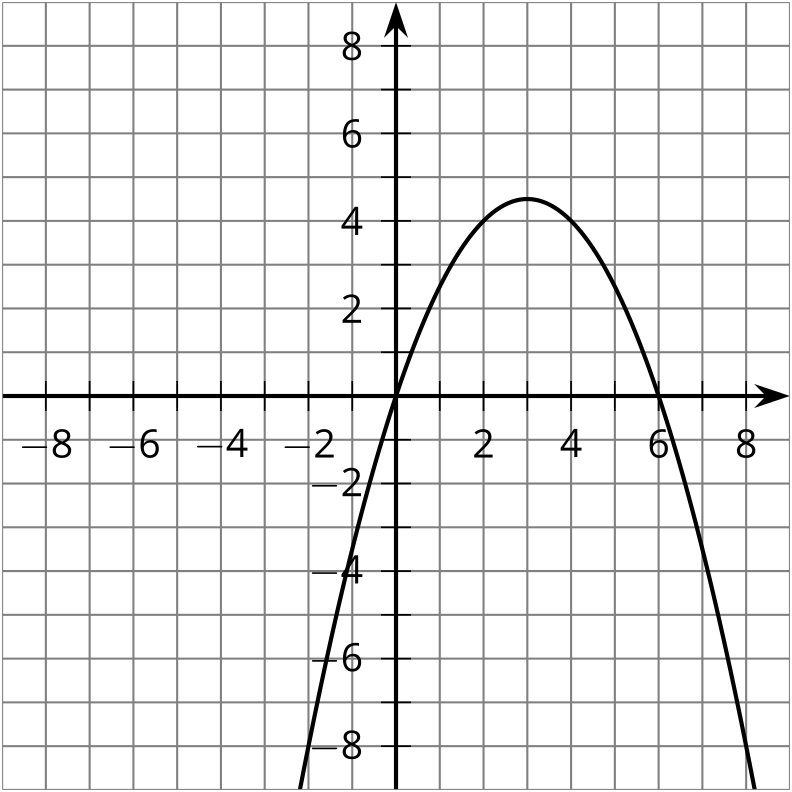
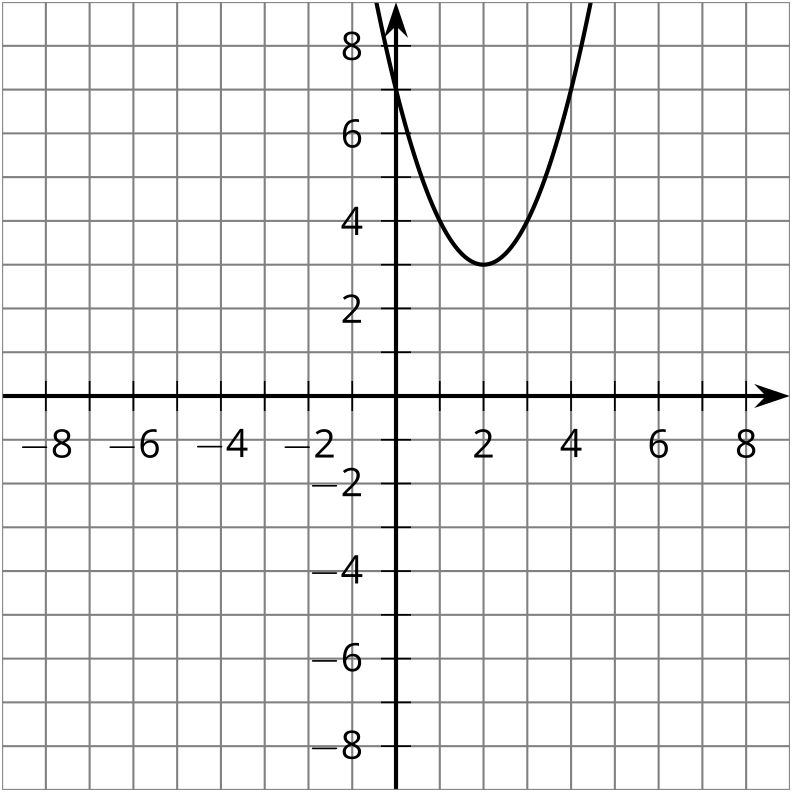
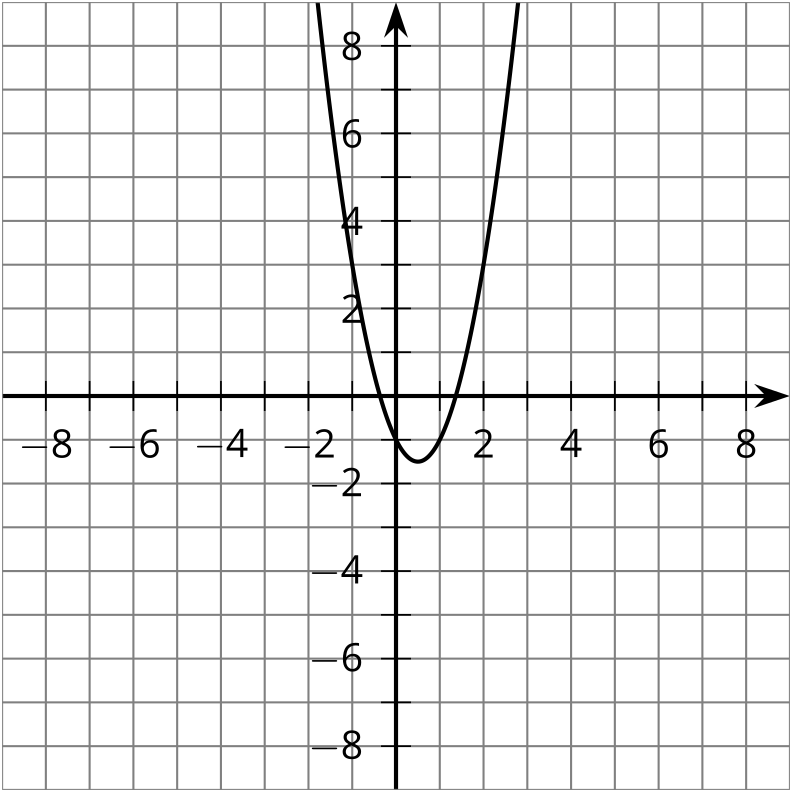
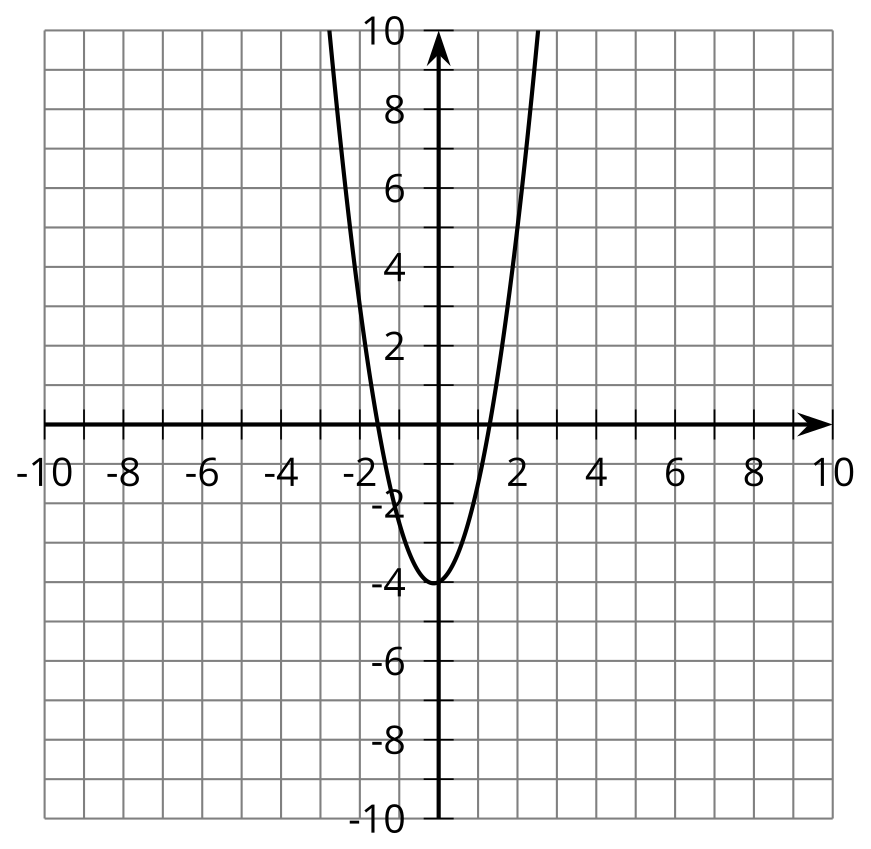
### Lesson 19 Practice Problems

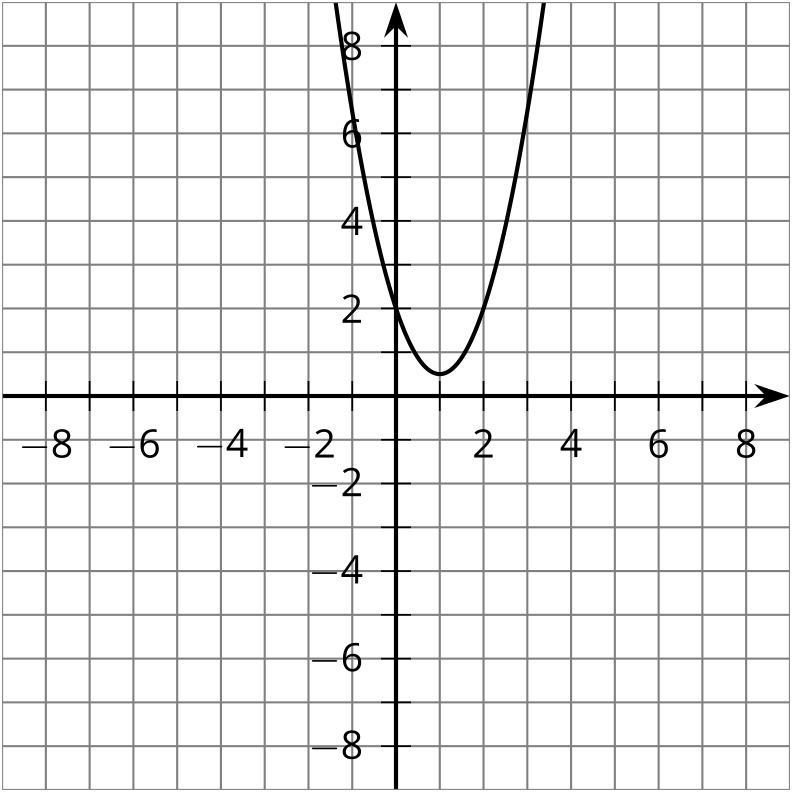
1. Without calculating the solutions, determine whether each equation has real solutions or not.

* 
* 
* 

1. The graph shows the equation .

* 
* Based on the graph, what number could you put in the box to create an equation that has no real solutions?

1. The graph shows the equation .

* 
  1. Without calculating the solutions, determine whether  has real solutions.
  2. Show how to solve .

1. Write a quadratic equation that has two non-real solutions. How did you decide what equation to write?
2. Find the solution or solutions to each equation.
3. Elena and Kiran were solving the equation and they got different answers. Elena wrote , and Kiran wrote . Are their answers equivalent? Say how you know.



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