Upper 6 Chapter 2

Functions and Graphs

Chapter Overview

1. The Modulus Function

2. Mappings vs Functions, Domain and Range

3. Composite Functions

4. Inverse Functions

5. Transformations of the form or . Combined transformations and transforming the modulus function.

6. Solving modulus problems







The Modulus Function

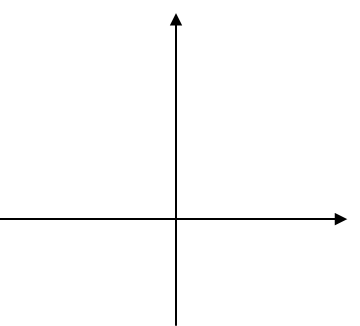
Example:

1. If , find



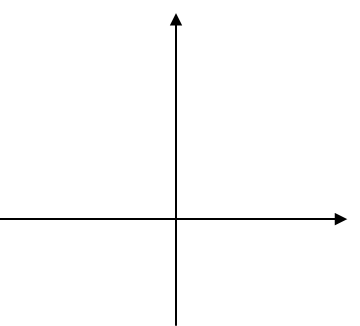
Modulus Graphs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | -2 | -1 | 0 | 1 | 2 |
|  |  |  |  |  |  |

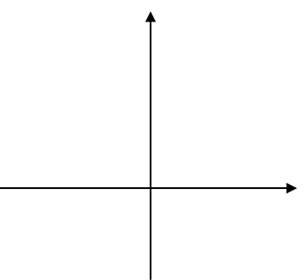
Examples

1. Sketch

2. Solve

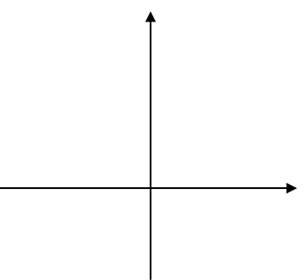


3. Solve

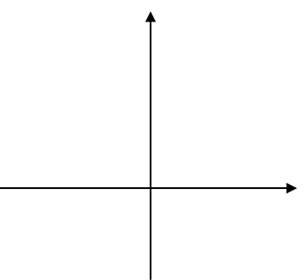


Test Your Understanding

1. Solve



2. Solve



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