# **Preliminaries and Objectives**

### **Exponential and Logarithm Function**

# **Inverse Functions – Part II**

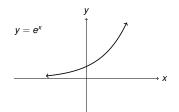
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Preliminaries

- Inverse Functions
- One-to-One Functions

#### Objectives

• Define inverses for functions that are not one-to-one



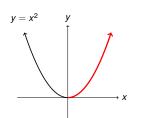
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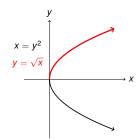
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Inverse Functions - Part I

### **Powers and Roots**

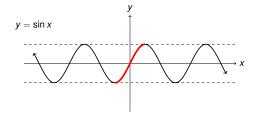




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Inverse Functions - Part II

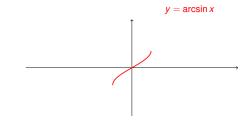
### **Wave Graphs**



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verse Functions – Part II

### **Wave Graphs**



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## Recap

- To find an inverse function of a one-to-one function, interchange *x* and *y*.
- If the original function is not one-to-one, restrict the domain to a portion that is one-to-one.