

# Class Rectangle

```
java.lang.Object
├─ Shape
└─ Rectangle
```

```
public class Rectangle
extends Shape
```

**Version:**

2-27-18

**Author:**

Nathan Chen, Benjamin Tu

## Constructor Summary

[Rectangle](#)(double x, double y)  
Create a rectangle with base and height

## Method Summary

double	<a href="#">findArea</a> () Returns area of rectangle as Double
double	<a href="#">findDiagonal</a> () Returns diagonal of rectangle as Double
double	<a href="#">findPerimeter</a> () Returns perimeter of rectangle as Double
double	<a href="#">getBase</a> () Returns base of rectangle as Double
double	<a href="#">getHeight</a> () Returns height of rectangle as Double
void	<a href="#">setBase</a> (double x) Sets base of rectangle
void	<a href="#">setHeight</a> (double x) Sets height of rectangle

## Methods inherited from class

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructor Detail

## Rectangle

```
public Rectangle(double x,  
                 double y)
```

Create a rectangle with base and height

**Parameters:**

x - Double for base

y - Double for height

## Method Detail

### findArea

```
public double findArea()
```

Returns area of rectangle as Double

**Specified by:**

findArea in class Shape

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### findDiagonal

```
public double findDiagonal()
```

Returns diagonal of rectangle as Double

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### findPerimeter

```
public double findPerimeter()
```

Returns perimeter of rectangle as Double

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### getBase

```
public double getBase()
```

Returns base of rectangle as Double

---

### getHeight

```
public double getHeight()
```

Returns height of rectangle as Double

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### setBase

```
public void setBase(double x)
```

Sets base of rectangle

**Parameters:**x - Double for base

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**setHeight**

```
public void setHeight(double x)
```

Sets height of rectangle

**Parameters:**x - Double for height

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