Class Line

java.lang.Object
    Line

```
public class Line
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor	Description
Line(double a)	Constructor for a vertical line with a slope of 0
Line(double m, double b)	Constructor that takes the slope as as well as the vertical shift of the line
Line(double x, double y, double m)	Constructor that takes a point the line intersects with as well as its slope
Line(double x1, double y1, double x2, double y2)	Constructor that takes in two points and generates an equation with them

Method Summary

All Methods	Instance Methods	Concrete Methods	
Modifier and Type	Method		Description
java.lang.String	toString()		

Methods inherited from class java.lang.Object

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

Constructor Details

Line

```
public Line(double x,
            double y,
            double m)
```

Constructor that takes a point the line intersects with as well as its slope

Parameters:

x - - x coordinate of point

y - - y coordinate of point

m - - slope of line

Line

```
public Line(double x1,
            double y1,
            double x2,
            double y2)
```

Constructor that takes in two points and generates an equation with them

Parameters:

x1 - - x coordinate of first point

y1 - - y coordinate of first point

x2 - - x coordinate of second point

y2 - - y coordinate of second point

Line

```
public Line(double m,
            double b)
```

Constructor that takes the slope as as well as the vertical shift of the line

Parameters:

m - - slope of the line

b - - vertical shift of the line

Line

```
public Line(double a)
```

Constructor for a vertical line with a slope of 0

Parameters:

a - - x intercept of the vertical line

Method Details

toString

public java.lang.String toString()

Overrides:

toString in class java.lang.Object