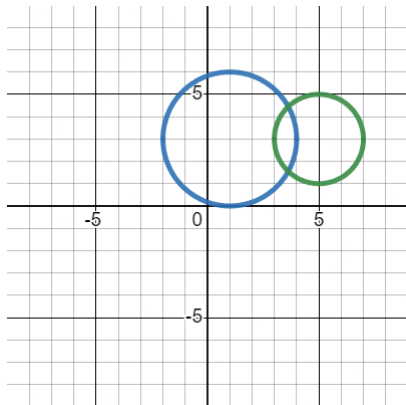


2ME3 Fall 2023 - Assignment 2

Test Cases Pdf Jasraj Johal johalj11

Test of Circle.intersect(Circle) (testCircleIntersectCircle)

Case 1



Circle c1 = new Circle(new Point(1.0f, 3.0f), 3.0f);

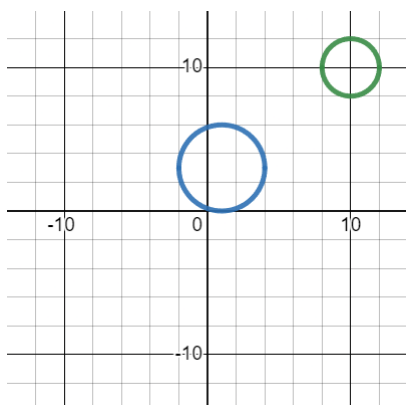
Circle c2 = new Circle(new Point(5.0f, 3.0f), 2.0f);

Expected Result: true

Code Result: true

Test Result: pass

Case 2



Circle c1 = new Circle(new Point(1.0f, 3.0f), 3.0f);

Circle c2 = new Circle(new Point(10.0f, 10.0f), 2.0f);

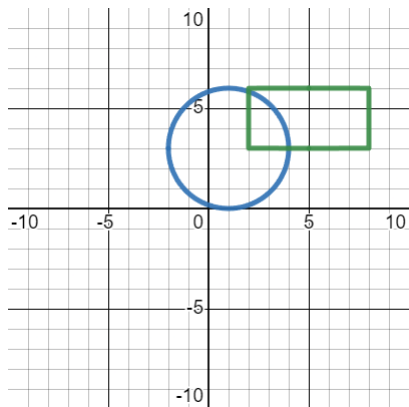
Expected Result: false

Code Result: false

Test Result: pass

Test of Circle.intersect(Rectangle) (testCircleIntersectRectangle)

Case 1



```
Circle c1 = new Circle(new Point(1.0f, 3.0f), 3.0f);
```

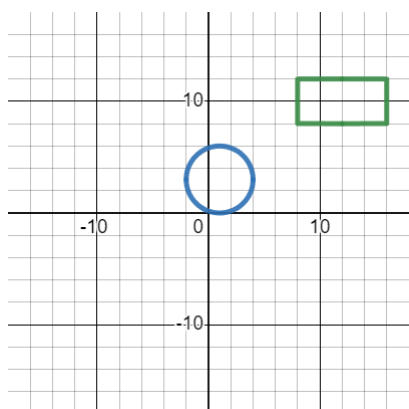
```
Rectangle r2 = new Rectangle(2.0f, 8.0f, 6.0f, 3.0f);
```

Expected Result: true

Code Result: true

Test Result: pass

Case 2



```
Circle c1 = new Circle(new Point(1.0f, 3.0f), 3.0f);
```

```
Rectangle r2 = new Rectangle(8.0f, 16.0f, 12.0f, 8.0f);
```

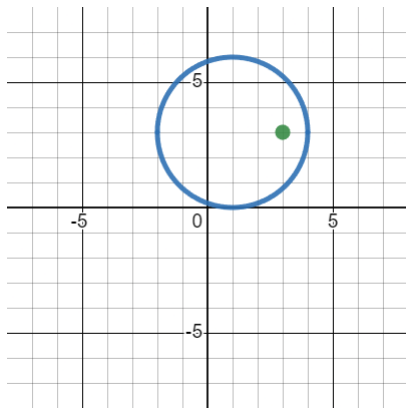
Expected Result: false

Code Result: false

Test Result: pass

Test of Circle.intersect(Point) (testCircleIntersectPoint)

Case 1



```
Circle c1 = new Circle(new Point(1.0f, 3.0f), 3.0f);
```

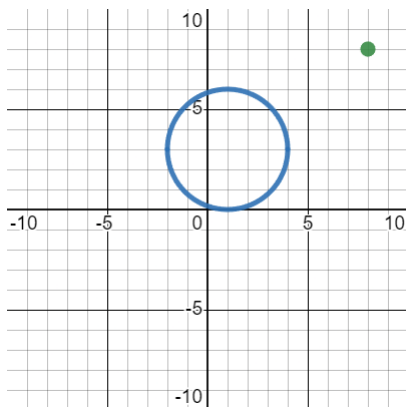
```
Point p2 = new Point(3.0f, 3.0f);
```

Expected Result: true

Code Result: true

Test Result: pass

Case 2



```
Circle c1 = new Circle(new Point(1.0f, 3.0f), 3.0f);
```

Point p2 = new Point(8.0f, 8.0f);

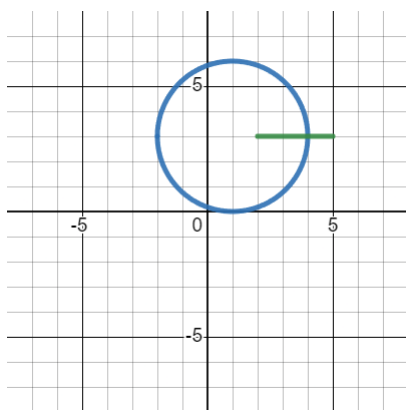
Expected Result: false

Code Result: false

Test Result: pass

Test of Circle.intersect(LineSeg) (testCircleIntersectLineSeg)

Case 1



Circle c1 = new Circle(new Point(1.0f, 3.0f), 3.0f);

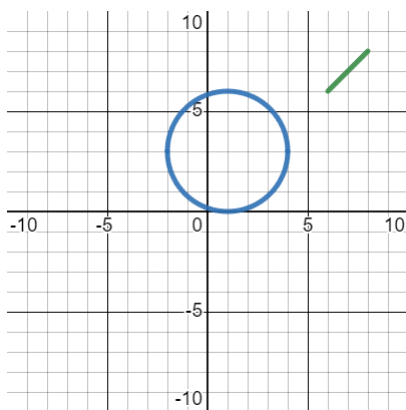
LineSeg l2 = new LineSeg(new Point(2.0f, 3.0f), new Point(5.0f, 3.0f));

Expected Result: true

Code Result: true

Test Result: pass

Case 2



```
Circle c1 = new Circle(new Point(1.0f, 3.0f), 3.0f);
```

```
LineSeg l2 = new LineSeg(new Point(6.0f, 6.0f), new Point(8.0f, 8.0f));
```

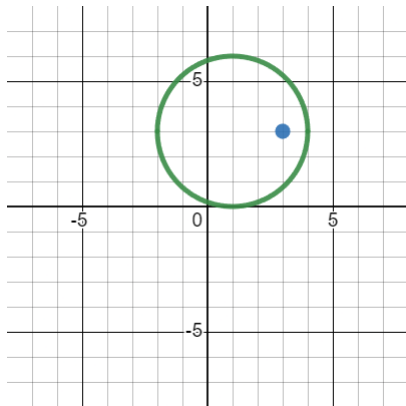
Expected Result: false

Code Result: false

Test Result: pass

Test of Point.intersect(Circle) (testPointIntersectCircle)

Case 1



```
Point p1 = new Point(3.0f, 3.0f);
```

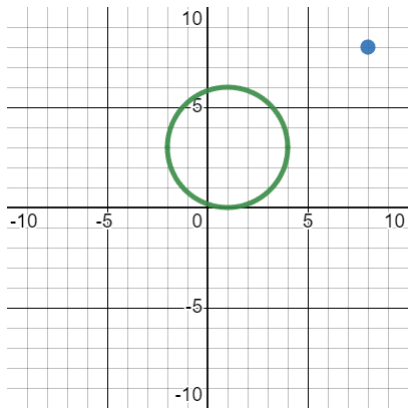
```
Circle c2 = new Circle(new Point(1.0f, 3.0f), 3.0f);
```

Expected Result: true

Code Result: true

Test Result: pass

Case 2



Point p1 = new Point(8.0f, 8.0f);

Circle c2 = new Circle(new Point(1.0f, 3.0f), 3.0f);

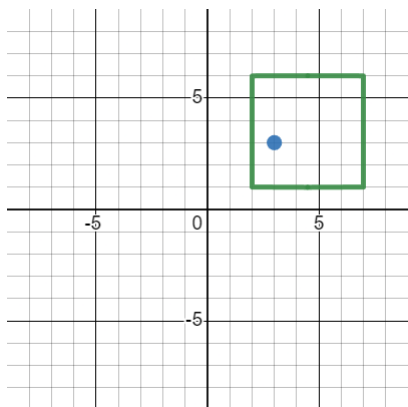
Expected Result: false

Code Result: false

Test Result: pass

Test of Point.intersect(Rectangle) (testPointIntersectRectangle)

Case 1



Point p1 = new Point(3.0f, 3.0f);

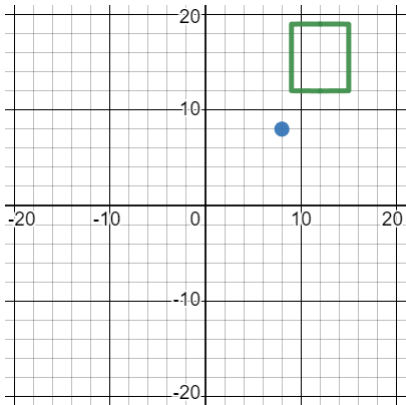
Rectangle r2 = new Rectangle(2.0f, 7.0f, 6.0f, 1.0f);

Expected Result: true

Code Result: true

Test Result: pass

Case 2



Point p1 = new Point(8.0f, 8.0f);

Rectangle r2 = new Rectangle(9.0f, 15.0f, 19.0f, 12.0f);

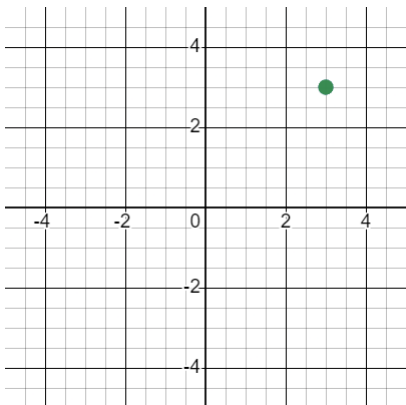
Expected Result: false

Code Result: false

Test Result: pass

Test of Point.intersect(Point) (testPointIntersectPoint)

Case 1



Point p1 = new Point(3.0f, 3.0f);

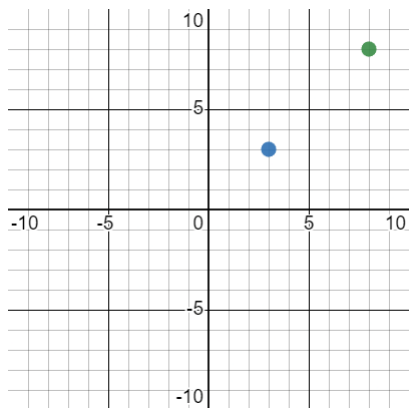
Point p2 = new Point(3.0f, 3.0f);

Expected Result: true

Code Result: true

Test Result: pass

Case 2



Point p1 = new Point(3.0f, 3.0f);

Point p2 = new Point(8.0f, 8.0f);

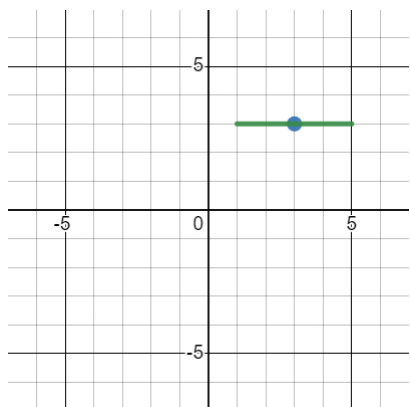
Expected Result: false

Code Result: false

Test Result: pass

Test of Point.intersect(LineSeg) (testPointIntersectLineSeg)

Case 1



Point p1 = new Point(3.0f, 3.0f);

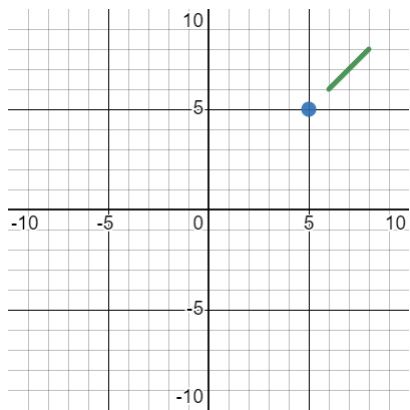
LineSeg l2 = new LineSeg(new Point(1.0f, 3.0f), new Point(5.0f, 3.0f));

Expected Result: true

Code Result: true

Test Result: pass

Case 2



Point p1 = new Point(5.0f, 5.0f);

LineSeg l2 = new LineSeg(new Point(6.0f, 6.0f), new Point(8.0f, 8.0f));

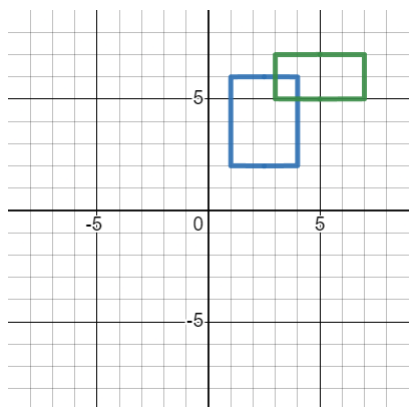
Expected Result: false

Code Result: false

Test Result: pass

Test of Rectangle.intersect(Rectangle) (testRectangleIntersectRectangle)

Case 1



Rectangle r1 = new Rectangle(1.0f, 4.0f, 6.0f, 2.0f);

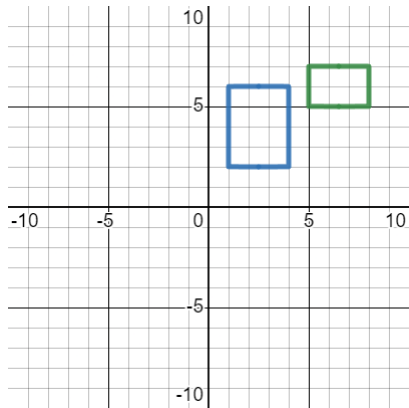
Rectangle r2 = new Rectangle(3.0f, 7.0f, 7.0f, 5.0f);

Expected Result: true

Code Result: true

Test Result: pass

Case 2



```
Rectangle r1 = new Rectangle(1.0f, 4.0f, 6.0f, 2.0f);
```

```
Rectangle r2 = new Rectangle(5.0f, 8.0f, 7.0f, 5.0f);
```

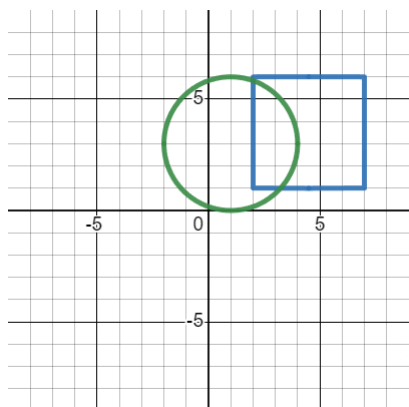
Expected Result: false

Code Result: false

Test Result: pass

Test of Rectangle.intersect(Circle) (testRectangleIntersectCircle)

Case 1



```
Rectangle r1 = new Rectangle(2.0f, 7.0f, 6.0f, 1.0f);
```

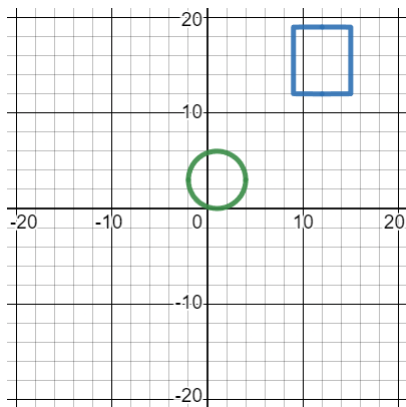
```
Circle c2 = new Circle(new Point(1.0f, 3.0f), 3.0f);
```

Expected Result: true

Code Result: true

Test Result: pass

Case 2



```
Rectangle r1 = new Rectangle(9.0f, 15.0f, 19.0f, 12.0f);
```

```
Circle c2 = new Circle(new Point(1.0f, 3.0f), 3.0f);
```

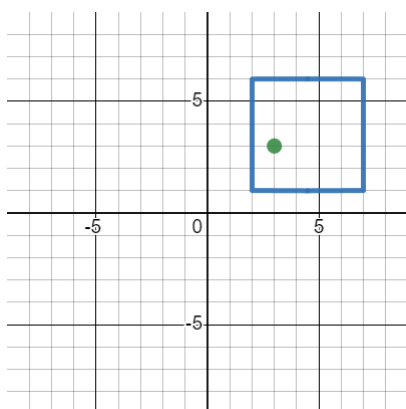
Expected Result: false

Code Result: false

Test Result: pass

Test of Rectangle.intersect(Point) (testRectangleIntersectPoint)

Case 1



```
Rectangle r1 = new Rectangle(2.0f, 7.0f, 6.0f, 1.0f);
```

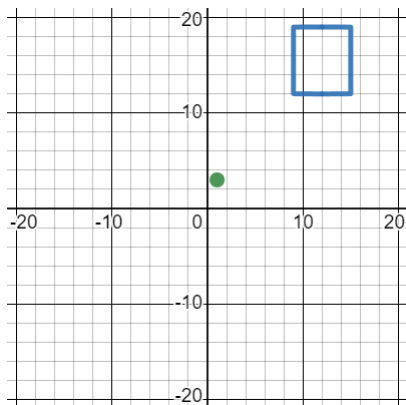
```
Point p2 = new Point(3.0f, 3.0f);
```

Expected Result: true

Code Result: true

Test Result: pass

Case 2



Rectangle r1 = new Rectangle(9.0f, 15.0f, 19.0f, 12.0f);

Point p2 = new Point(1.0f, 3.0f);

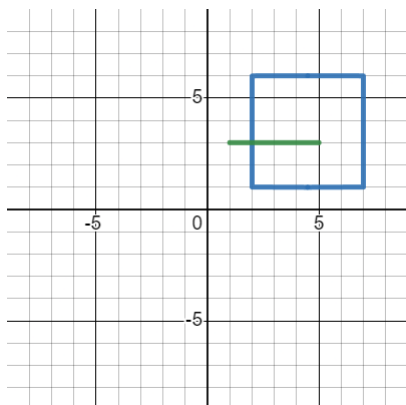
Expected Result: false

Code Result: false

Test Result: pass

Test of Rectangle.intersect(LineSeg) (testRectangleIntersectLineSeg)

Case 1



Rectangle r1 = new Rectangle(2.0f, 7.0f, 6.0f, 1.0f);

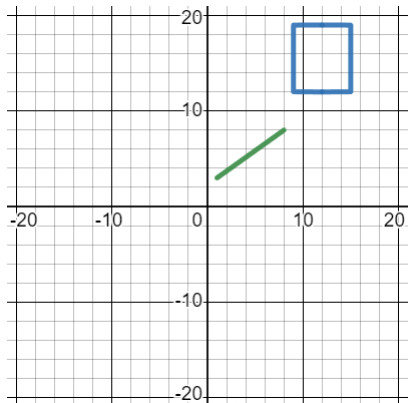
```
LineSeg l2 = new LineSeg(new Point(1.0f, 3.0f), new Point(5.0f, 3.0f));
```

Expected Result: true

Code Result: true

Test Result: pass

Case 2



```
Rectangle r1 = new Rectangle(9.0f, 15.0f, 19.0f, 12.0f);
```

```
LineSeg l2 = new LineSeg(new Point(1.0f, 3.0f), new Point(8.0f, 8.0f));
```

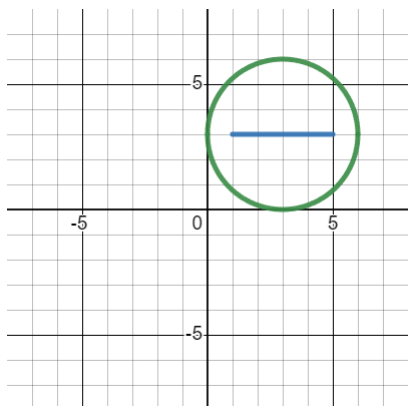
Expected Result: false

Code Result: false

Test Result: pass

Test of LineSeg.intersect(Circle) (testLineSegIntersectCircle)

Case 1



```
LineSeg l1 = new LineSeg(new Point(1.0f, 3.0f), new Point(5.0f, 3.0f));
```

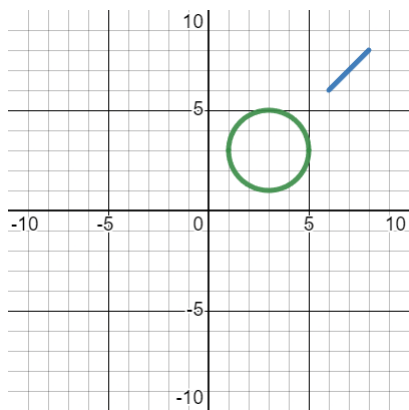
```
Circle c2 = new Circle(new Point(3.0f, 3.0f), 3.0f);
```

Expected Result: true

Code Result: true

Test Result: pass

Case 2



```
LineSeg l1 = new LineSeg(new Point(6.0f, 6.0f), new Point(8.0f, 8.0f));
```

```
Circle c2 = new Circle(new Point(3.0f, 3.0f), 2.0f);
```

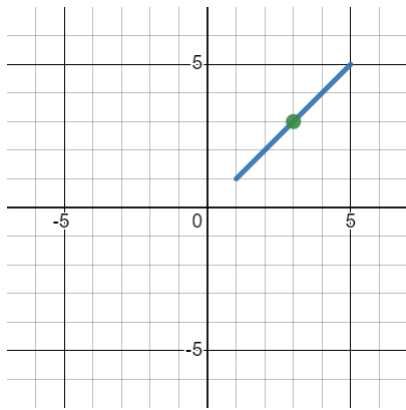
Expected Result: false

Code Result: false

Test Result: pass

Test of LineSeg.intersect(Point) (testLineSegIntersectPoint)

Case 1



```
LineSeg l1 = new LineSeg(new Point(1.0f, 1.0f), new Point(5.0f, 5.0f));
```

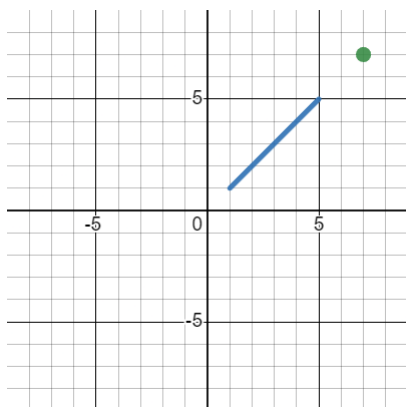
```
Point p2 = new Point(3.0f, 3.0f);
```

Expected Result: true

Code Result: true

Test Result: pass

Case 2



```
LineSeg l1 = new LineSeg(new Point(1.0f, 1.0f), new Point(5.0f, 5.0f));
```

```
Point p2 = new Point(7.0f, 7.0f);
```

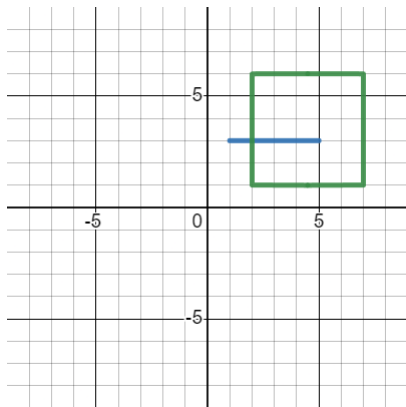
Expected Result: false

Code Result: false

Test Result: pass

Test of LineSeg.intersect(Rectangle) (testLineSegIntersectRectangle)

Case 1



```
LineSeg l1 = new LineSeg(new Point(1.0f, 3.0f), new Point(5.0f, 3.0f));
```

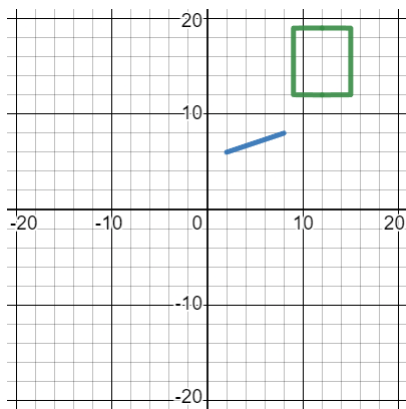
```
Rectangle r2 = new Rectangle(2.0f, 7.0f, 6.0f, 1.0f);
```

Expected Result: true

Code Result: true

Test Result: pass

Case 2



```
LineSeg l1 = new LineSeg(new Point(2.0f, 6.0f), new Point(8.0f, 8.0f));
```

```
Rectangle r2 = new Rectangle(9.0f, 15.0f, 19.0f, 12.0f);
```

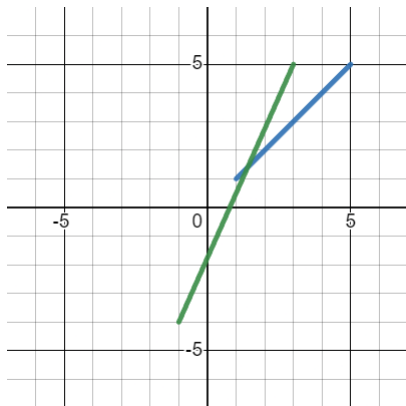
Expected Result: false

Code Result: false

Test Result: pass

Test of LineSeg.intersect(LineSeg) (testLineSegIntersectLineSeg)

Case 1



```
LineSeg l1 = new LineSeg(new Point(1.0f, 1.0f), new Point(5.0f, 5.0f));
```

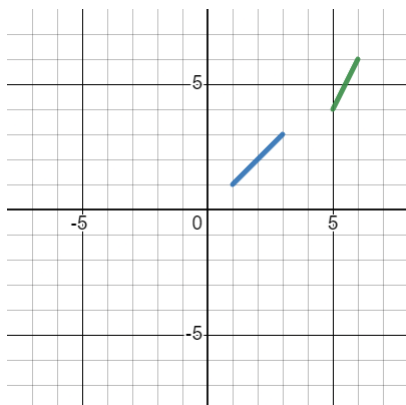
```
LineSeg l2 = new LineSeg(new Point(-1.0f, -4.0f), new Point(3.0f, 5.0f));
```

Expected Result: true

Code Result: true

Test Result: pass

Case 2



```
LineSeg l1 = new LineSeg(new Point(1.0f, 1.0f), new Point(3.0f, 3.0f));
```

```
LineSeg l2 = new LineSeg(new Point(5.0f, 4.0f), new Point(6.0f, 6.0f));
```

Expected Result: false

Code Result: false

Test Result: pass