

Source code:

```
import java.awt.Rectangle;
import java.awt.Shape;
import java.awt.geom.AffineTransform;
import java.awt.geom.PathIterator;
import java.awt.geom.Point2D;
import java.awt.geom.Rectangle2D;

public class MyShape implements Shape {
    private int centerX;
    private int centerY;
    private int param;

    MyShape(int centerX, int centerY, int param) {
        this.centerX = centerX;
        this.centerY = centerY;
        this.param = param;
    }

    @Override
    public Rectangle getBounds() {
        return null;
    }

    @Override
    public Rectangle2D getBounds2D() {
        return null;
    }

    @Override
    public boolean contains(double x, double y) {
        return false;
    }

    @Override
    public boolean contains(Point2D p) {
        return false;
    }

    @Override
    public boolean intersects(double x, double y, double w, double h) {
        return false;
    }

    @Override
    public boolean intersects(Rectangle2D r) {
        return false;
    }

    return false;
}

@Override
public boolean contains(double x, double y, double w, double h) {
    return false;
}

@Override
public boolean contains(Rectangle2D r) {
    return false;
}

@Override
public PathIterator getPathIterator(AffineTransform at) {
    return new ShapeIterator();
}

@Override
public boolean contains(Rectangle2D r) {
    return false;
}

@Override
public int currentSegment(float[] coordinate) {
    if (start) {
        coordinate[0] = (float) (param * t - param * Math.sin(t)); // x
        coordinate[1] = (float) (param - param * Math.cos(t)); // y
        start = false;
        return SEG_MOVE_TO;
    }
    if (t >= 10 * Math.PI) {
        done = true;
        return SEG_CLOSE;
    }
    coordinate[0] = (float) (param * t - param * Math.sin(t)); // x
    coordinate[1] = (float) (param - param * Math.cos(t)); // y
    return SEG_LINE_TO;
}

@Override
public int currentSegment(double[] coordinate) {
    if (start) {
        coordinate[0] = (double) (param * t - param * Math.sin(t)); // x
        coordinate[1] = (double) (param - param * Math.cos(t)); // y
        start = false;
        return SEG_MOVE_TO;
    }
    if (t >= 10 * Math.PI) {
        done = true;
        return SEG_CLOSE;
    }
    coordinate[0] = (double) (param * t - param * Math.sin(t)); // x
    coordinate[1] = (double) (param - param * Math.cos(t)); // y
    return SEG_LINE_TO;
}
}
```