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triangle tester {
    get user input (make sure its double)
    myTriangle = new triangle object with input
    print myTriangle.getCoordinates();
    print myTriangle.getSideLength1() then 2 then 3
    print myTriangle.getAngle1() then 2 then 3
    print perimeter
    print area
    print boolean of equilateral check
    print boolean of right-triangle check
    print incenter coordinates
    print centroid coordinates
}

```

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triangle {
    3 Point2D objects for triangle corners
    constructor with 6 inputs, for 3 coordinates {

        }

    double getCoordinates() {
        return coordinates of triangle object
    }

    double getSideLength1() then 2 and 3 {
        returns the side length
    }

    double getAngle1() then 2 and 3 {
        returns the angle
    }

    double getPerimter() returns perimeter

    double area() returns area

    boolean isEquilateral() {
        return true if angles are 60 degrees
    }
    boolean isRightTriangle() {
        return true if 90 degree angle is found
    }

    Point2D getIncenter() {
        calculate incenter with formula
        return coordinates
    }

    Point2D getCentroid() {
        calculate centroid with formula
        return coordinates
    }

}

```