Error

+ terminateProgram()
+ terminateProgramNoNewLine()

MathUtil

+ areEqual()
+ isGreaterOrEqualThan()
+ isLessOrEqualThan()

Bounding Box

- addPoint()
+ intercepts()

Virtual Point

x
y

+ dist()
+ equals()
+ toString()
+ rotate()
+ translate()
+ copyArray()
+ getPointFromInput()
+ arrayToString()
+ parseToArray()
+ X()
+ Y()

Vector

- length

+ length()
+ dotProduct()
+ hasRightAngle()
+ equals()
+ X()
+ Y()

origin
point

Path

- generateSegments()
+ dist()
+ intercepts()

min
max

Point

Responsabilidades
x e y têm de ser
sempre positivos

point 1
point 2

folds *
containedPoint
vertices *

Line

- Coefficient X
- Coefficient Y
- Constant

+ isCollinear()
- CalcExpr()
+ CalcIntersect()
+ isParalel()
+ isPerpendicular()
+ equals()

line

Line Segment

+ intersects()
- doParalelSegmentsOverlap()
- isPointOnBounds()
- ContainsPointOnSegment()
+ length()
+ getFirstPoint()
+ getSecondPoint()
+ line()

segments *

sides *

Retangulo

-NUM_SIDES

-validate Rectangle ()
- all Angles Are Right Angles ()
+ to String ()
+ rotate ()
+ rotate Degrees ()
+ translate ()
+ move Centroid ()

Quadrado

-NUM_SIDES

-validate Square ()
-are All Sides Same Length ()
+ to String ()
+ rotate ()
+ rotate Degrees ()
+ translate ()
+ move Centroid ()

Poligono

- generate Segments ()
- is Any Generated Point Collinear ()
- do Sides Intersect ()
+ intersects ()
+ perimeter ()
+ to String ()
+ equals ()
- is Polygon Equal ()
- find Vertice ()
+ rotate ()
+ rotate Degrees ()
- get Centroid ()
+ get Num Sides ()
+ translate ()
+ move Centroid ()

Triangulo

-NUM_SIDES

-validate Triangle ()
+ to String ()
+ rotate ()
+ rotate Degrees ()
+ translate ()
+ move Centroid ()