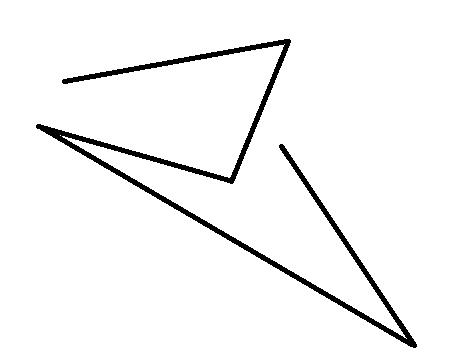
272,207



100, 110

328,68

455,374

322, 170

78, 155

1. Draw line above

**Initial GeoJSON with just line**

{

"type": "FeatureCollection",

"features": [

{

"type": "Feature",

"properties": {},

"geometry": {

"type": "LineString",

"coordinates": [

[ 100, 110 ],

[ 328, 68 ],

[272, 208],

[ 78,155 ],

[455,374],

[422,170]

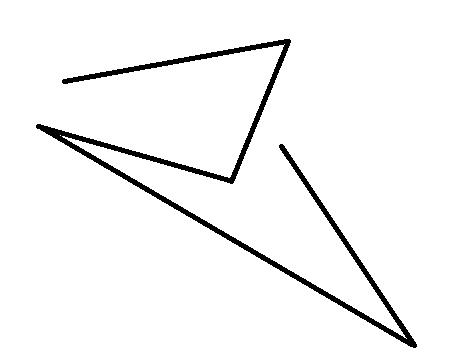
]

}

}

}

272, 207



100, 110

328,68

455,374

322, 170

78, 155

1. Assign Cable and calculate calibration points according to beginning of segments.
   1. Assume section starts at cable 200 units and goes 500 units (200 to 700)
      1. 100,110 = 200 from section data
      2. 322,170 = 700 from section data
   2. Calculate total length of line
      1. 1262 = Sum the Square root of (DX2 + DY2 ) for each segment
   3. Calculate length of each segment by percentage of whole and assign length
      1. Shown below
   4. 5,0 and 5,-4 calculated from secLength \* (segment length / line length)
      1. Where line length is 15 and each segment length is 5 above for easy math
   5. Add subSegment to keep track of geoJSON drawing object v calibration data application object

{

"type": "FeatureCollection",

"features": [

{

"type": "Feature",

"properties": {

“NameID”:”section1”

“secLenght”:700,

“calibrationPoints”:[,200,292,351,431,603]

"subSegments": [

[ 100, 110 ],

[ 328, 68 ],

[272, 207],

[ 78,155 ],

[455,374],

[422,170]

},

"geometry": {

"type": "LineString",

"coordinates": [

[ 100, 110 ],

[ 328, 68 ],

[272, 207],

[ 78,155 ],

[455,374],

[422,170]

]

}

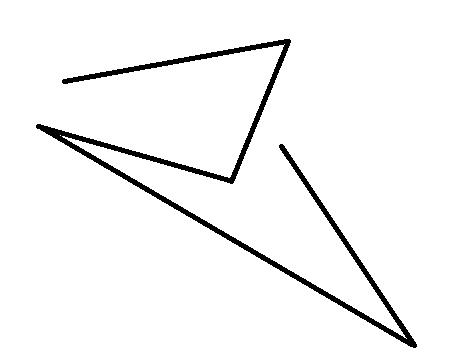
272,78

221,196

222,240

379,252

272, 207



100, 110

328,68

455,374

322, 170

78, 155

1. Add Calibration Points and insert as segments into calibration data and subSegments
   1. Automatically calculate at placement
   2. Calculation should be made from two nearest points
   3. All points below CALCULATED up to this piont

{

"type": "FeatureCollection",

"features": [

{

"type": "Feature",

"properties": {

“NameID”:”section1”

“secLenght”:700,

“calibrationPoints”:[,200,269,292,351,372,431,497,603,660]

"subSegments": [

[ 100, 110 ],

[ 272, 78 ],

[ 328, 68 ],

[272, 207],

[ 221, 196],

[ 78,155 ],

[ 222, 240 ],

[455,374],

[ 379, 352 ],

[422,170]

},

"geometry": {

"type": "LineString",

"coordinates": [

[ 100, 110 ],

[ 328, 68 ],

[272, 208],

[ 78,155 ],

[455,374],

[422,170]

]

}

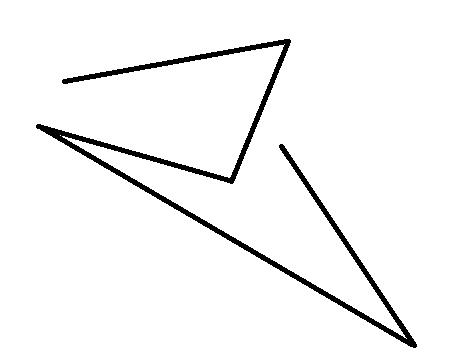
272,207

272,78

221,196

222,240

379,252



100, 110

328,68

455,374

322, 170

78, 155

1. Add Calibration data to point at [272,78] = 300
   1. Logic so we don’t’ continually recalculate or if additional points are set down
      1. Calculate calibrationPoint according to two nearest points when calibration point is placed
      2. On recalculation, If point is part of “coordinates” and “subSegments” section (i.e. geoJSON drawing engine) calculate calibration value. Exception 1st and last points
      3. If point is part of subSegments only, don’t calculate leave at value unless changed by user.
      4. First calibration point and secLength hard set
   2. Results in recalculation at [328,68], [272,207]
      1. Calibration table below adjusted values highlighted in **GREEN**
      2. Calibration table below recalculated values highlighted in **RED**

{

"type": "FeatureCollection",

"features": [

{

"type": "Feature",

"properties": {

“NameID”:”section1”

“secLenght”:700,

“calibrationPoints”:[,200,**300**,**316,375**,372,431,497,603,660]

"subSegments": [

[ 100, 110 ],

[ 272, 78 ],

[ 328, 68 ],

[272, 207],

[ 221, 196],

[ 78,155 ],

[ 222, 240 ],

[455,374],

[ 379, 352 ],

[422,170]

},

"geometry": {

"type": "LineString",

"coordinates": [

[ 100, 110 ],

[ 328, 68 ],

[272, 208],

[ 78,155 ],

[455,374],

[422,170]

]

}

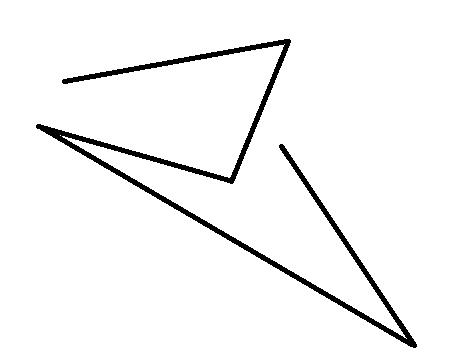
272,207

272,78

221,196

222,240

379,252



100, 110

328,68

455,374

322, 170

78, 155

1. Add Calibration data to point at [221,196] = 400
   1. Results in recalculation at [328,68], [272,207],[78,155]
2. Calibration table below adjusted values highlighted in **GREEN**
3. Calibration table below recalculated values highlighted in **RED**
4. Previously calibrated points in BLUE

{

"type": "FeatureCollection",

"features": [

{

"type": "Feature",

"properties": {

“NameID”:”section1”

“secLenght”:700,

“calibrationPoints”:[,200,**300**,**322,380**,**400**,**445**,497,603,660]

"subSegments": [

[ 100, 110 ],

[ 272, 78 ],

[ 328, 68 ],

[272, 207],

[ 221, 196],

[ 78,155 ],

[ 222, 240 ],

[455,374],

[ 379, 352 ],

[422,170]

},

"geometry": {

"type": "LineString",

"coordinates": [

[ 100, 110 ],

[ 328, 68 ],

[272, 208],

[ 78,155 ],

[455,374],

[422,170]

]

}