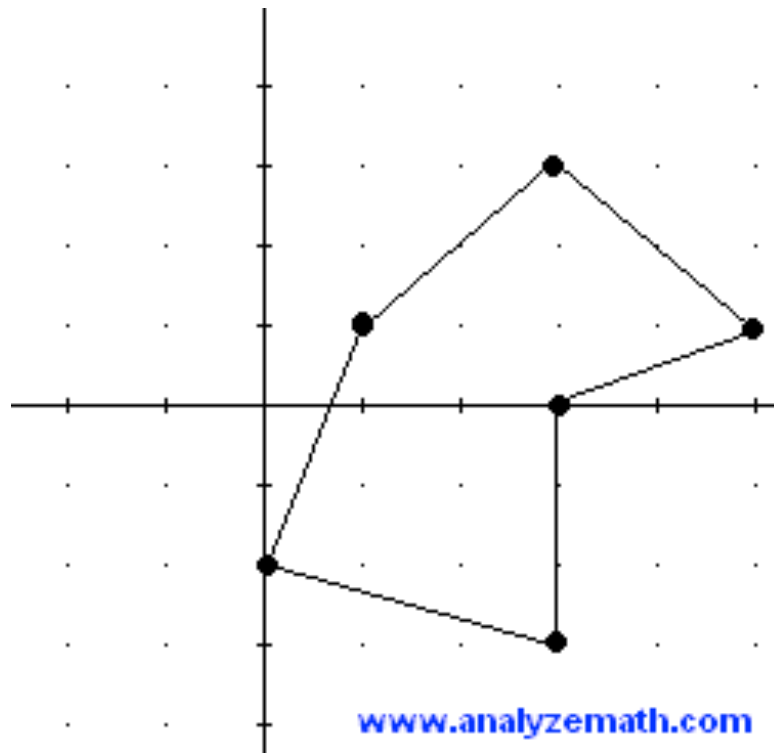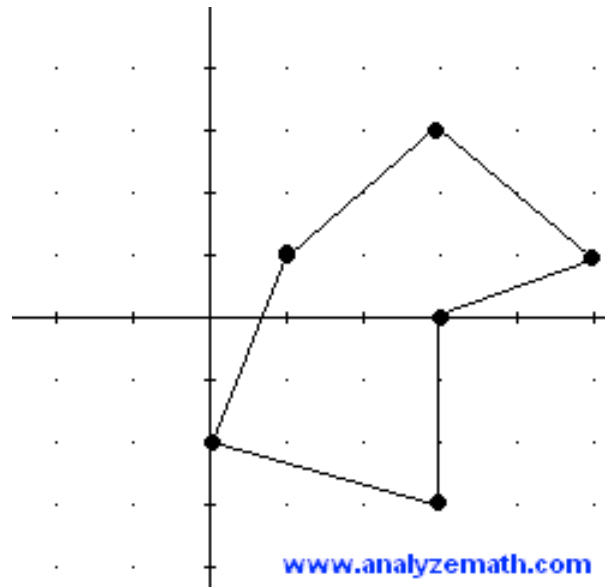# Breakout problem: Polygon Perimeter

Calculate the perimeter (and, if you are up for it, the area) of a polygon provided the vector coordinates (in order) of its N vertices.

Hint: Sum over distance between adjacent points, where d = math.sqrt($\delta x^2 + \delta y^2$) .

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In other words ...

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Calculate the perimeter (and, if you are up for it, the area) of a polygon provided the vector coordinates (in order) of its N vertices.

```
>>> a = Polygon([[0,0], [0,1], [1,1], [1,0]])
>>> a.perimeter()
4.0
>>> a.area()
1.0
>>> b = Polygon([[0,-2],[1,1],[3,3],[5,1],[4,0],[4,-3]])
>>> b.perimeter()
17.356451097651515
```

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