

L^AT_EX basics

Drawing geometric objects with tkz-euclide package

Tiep Vu
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Outline

① Points

- Points in Cartesian coordinate system

- Polar coordinate system

- Relative coordinates

② Lines, Segments, Rays

- Connect points

- Intersections

- Orthogonal and Parallel

③ Angles

- Specifying angle

- Labeling and Markers

- Angle bisector

④ Circles

- Drawing Circles

- Circle Intersection

- Circle and Tangents

⑤ Triangles

- Drawing triangles

- Centroid, Orthocenter, Circumcircle, Inscribed Circle

Drawing in L^AT_EX

Packages for drawing in L^AT_EX:

- TikZ
- PSTricks
- ...

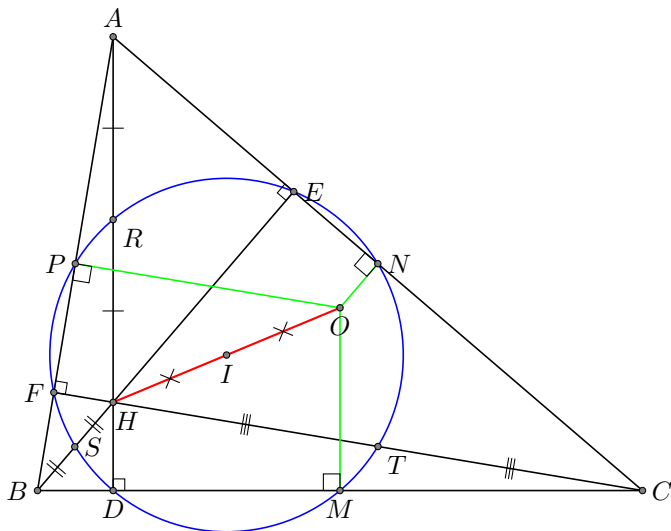
Sources: [What graphics packages are there for creating graphics in LaTeX documents?](#)

GUI tools for vector graphics:

- [GeoGebra](#) ([online GeoGebra](#))
- [Inkscape](#)
- ...

In the following videos, I'll focus on drawing **Euclidean** geometric shapes using [tkz-euclide](#) package.

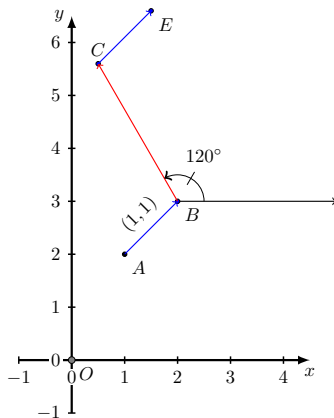
Euler circle



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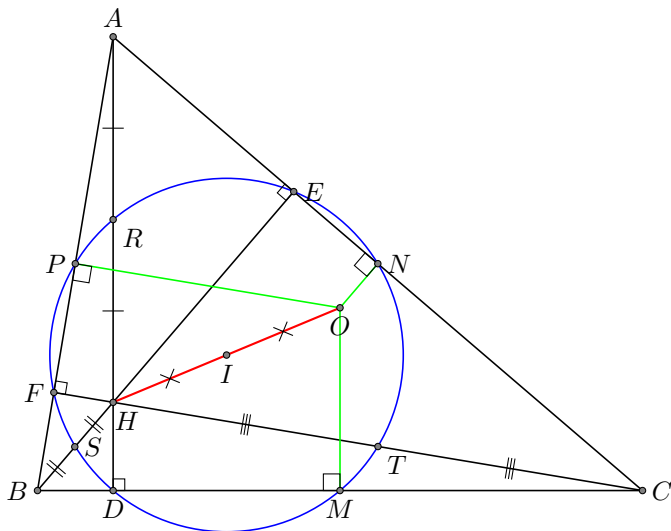
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Points

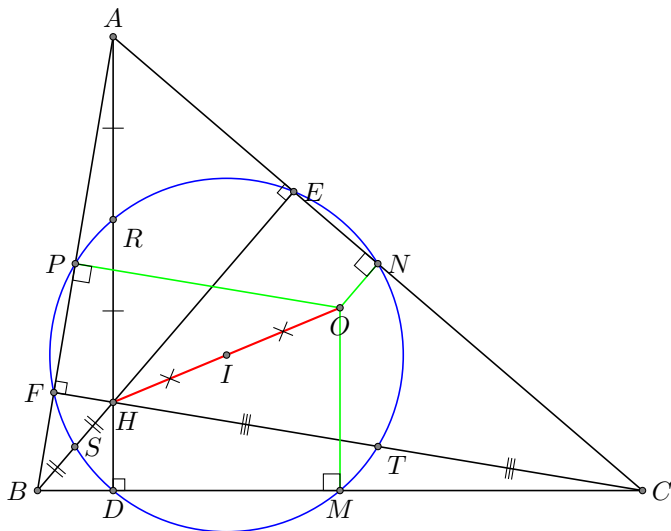


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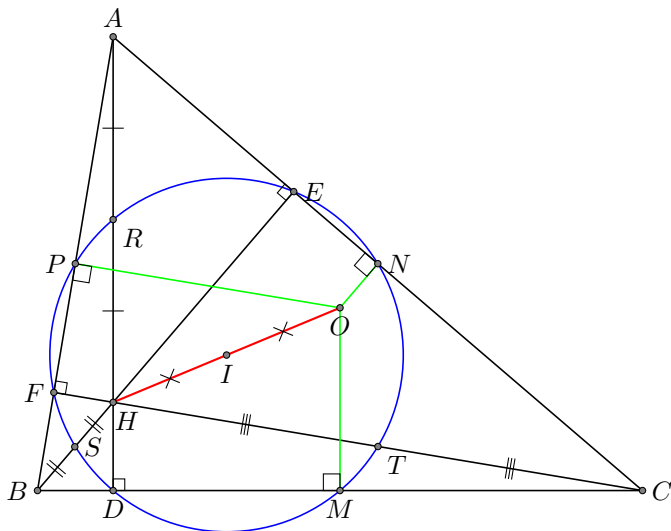
Euler circle



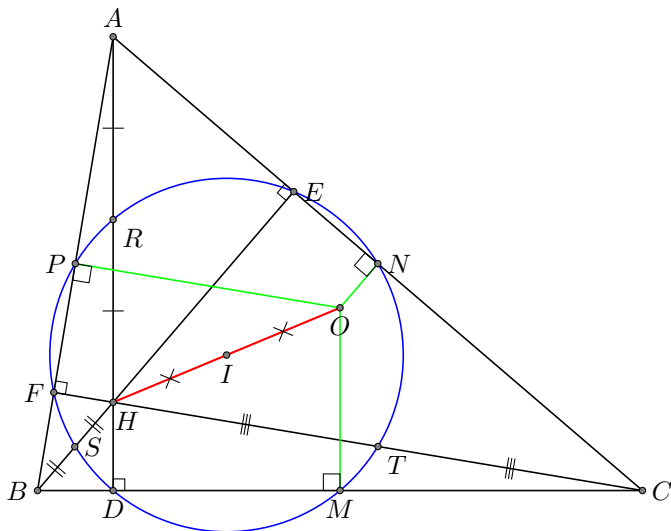
Euler circle



Euler circle



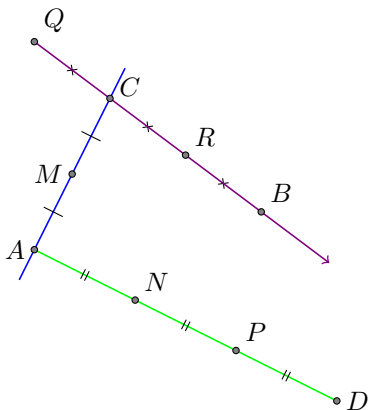
Euler circle



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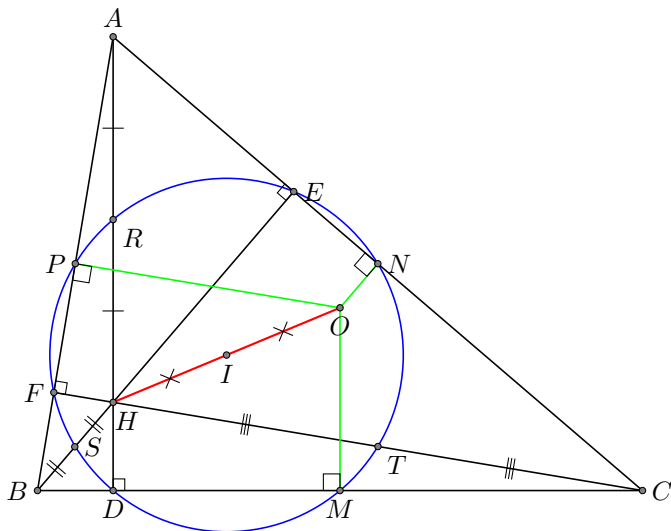
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Lines, Segments, Rays

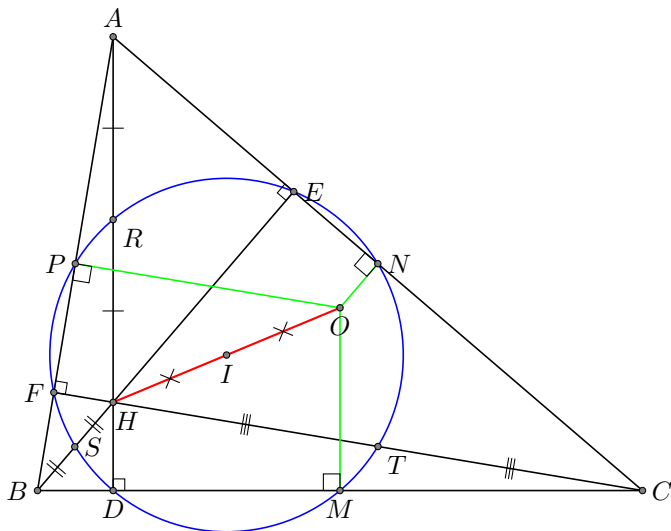


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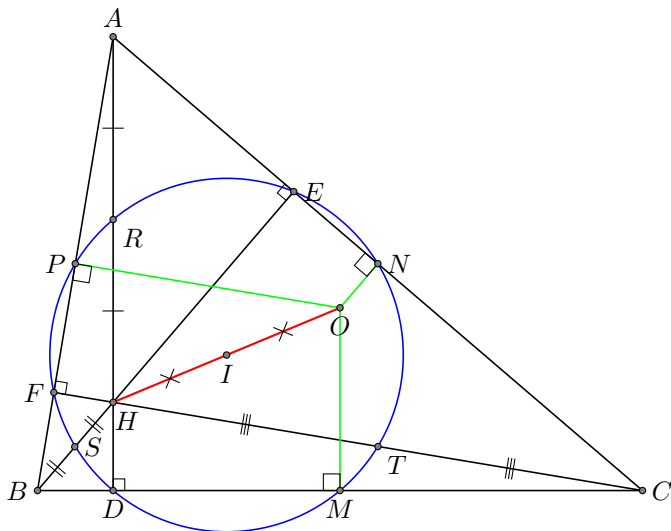
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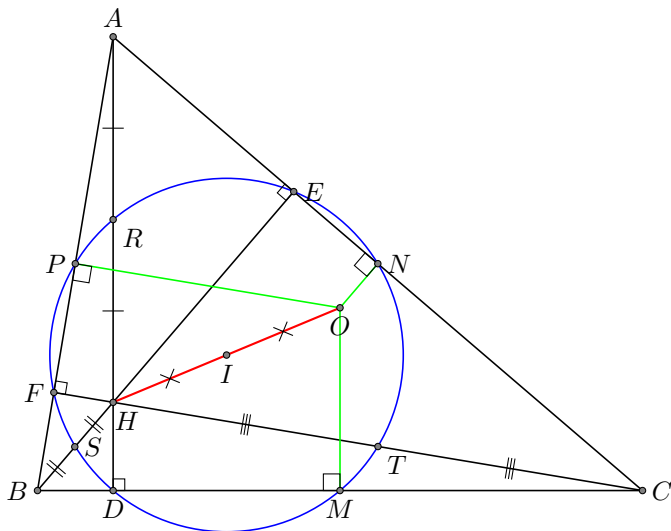
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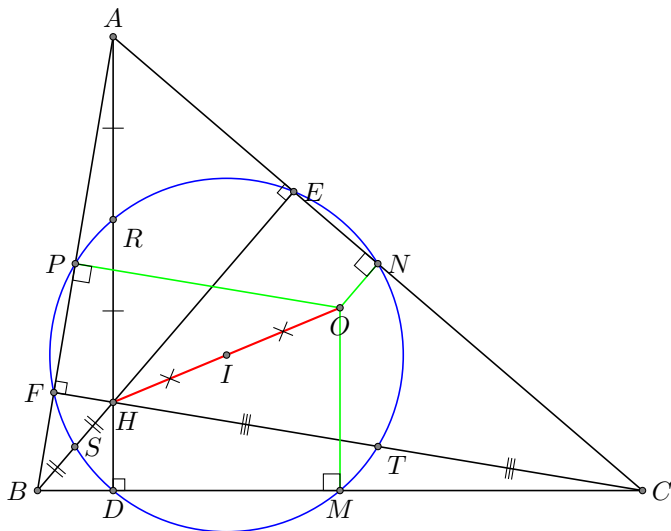
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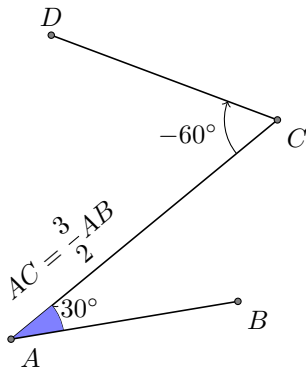
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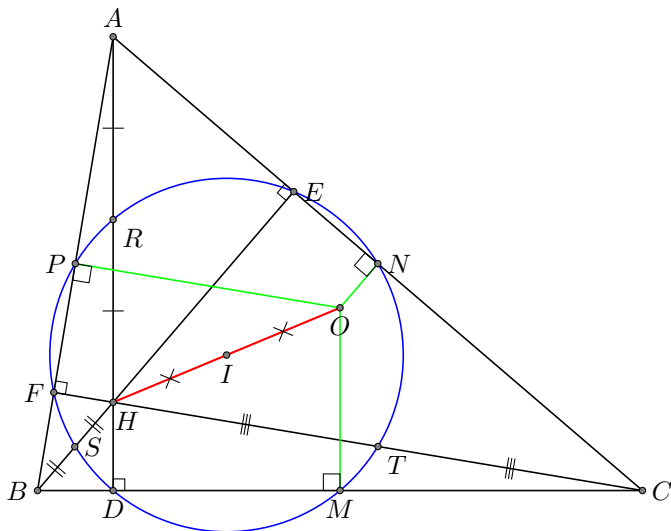
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Angles

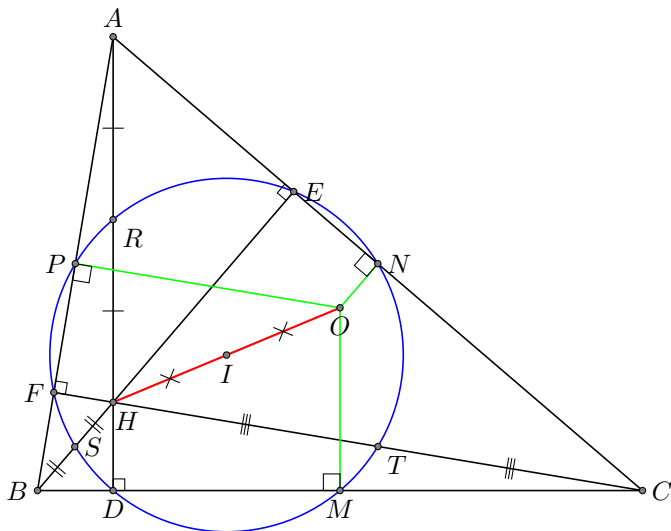


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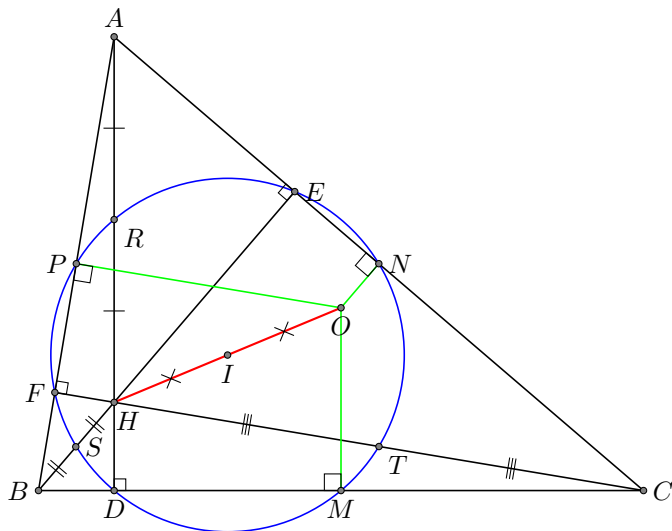
Euler circle



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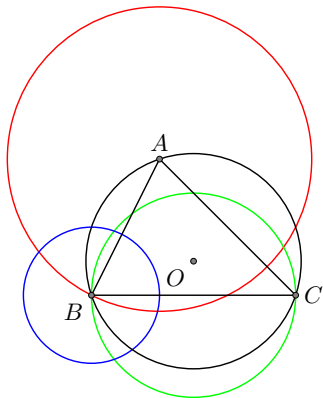
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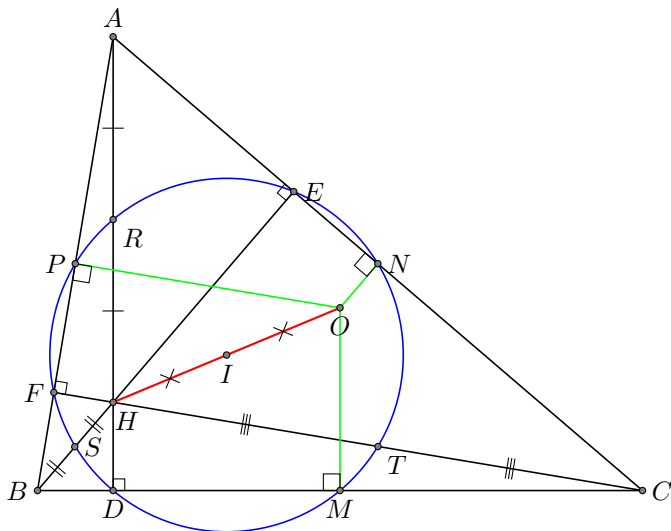
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Circles

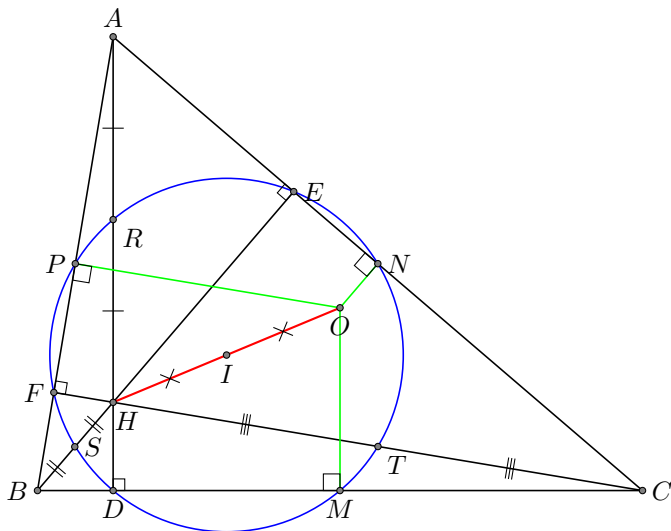


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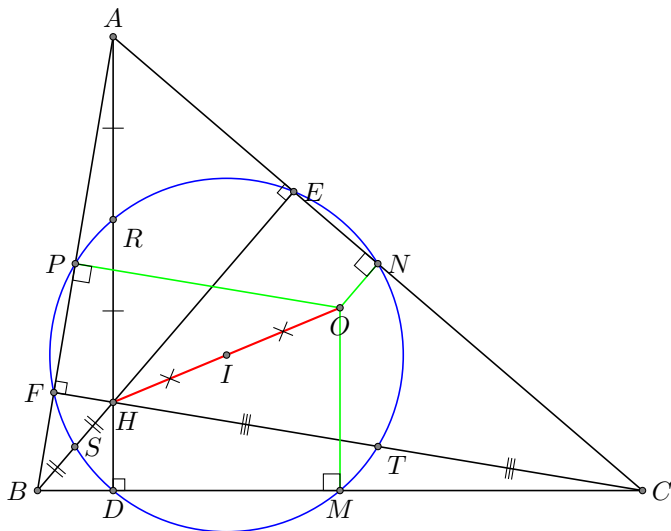
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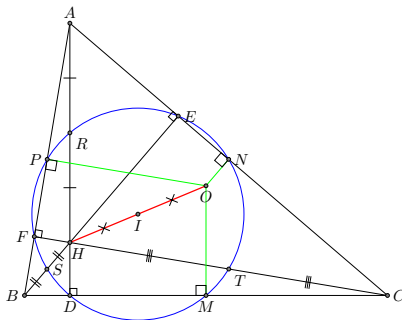
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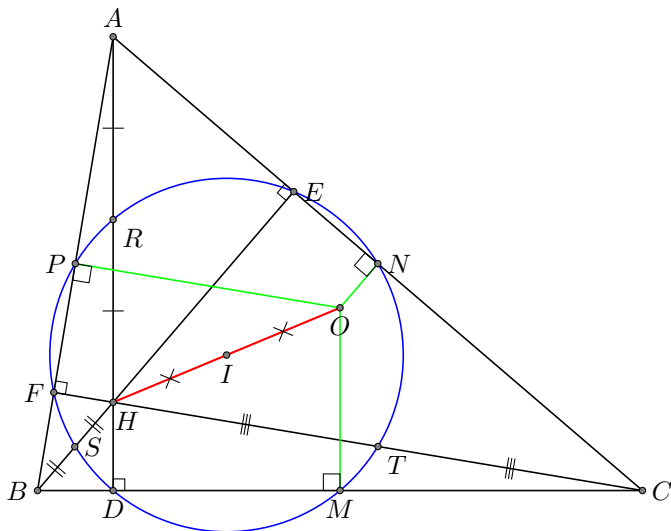
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Triangles

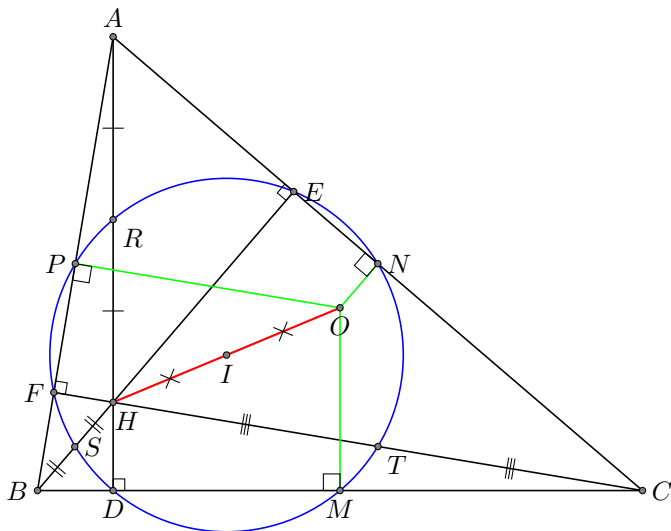


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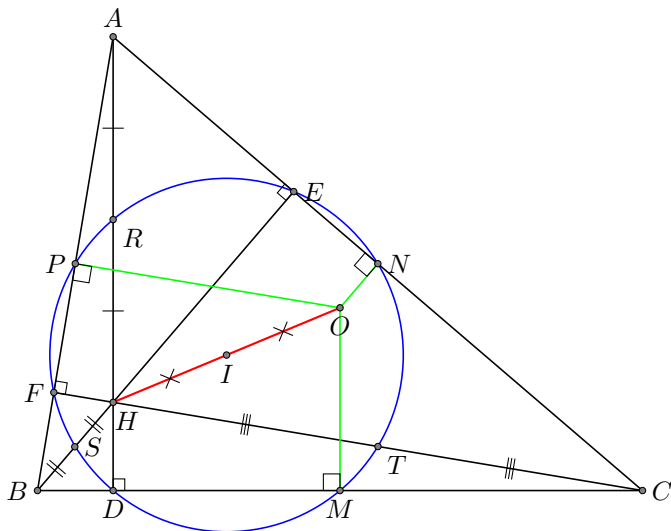
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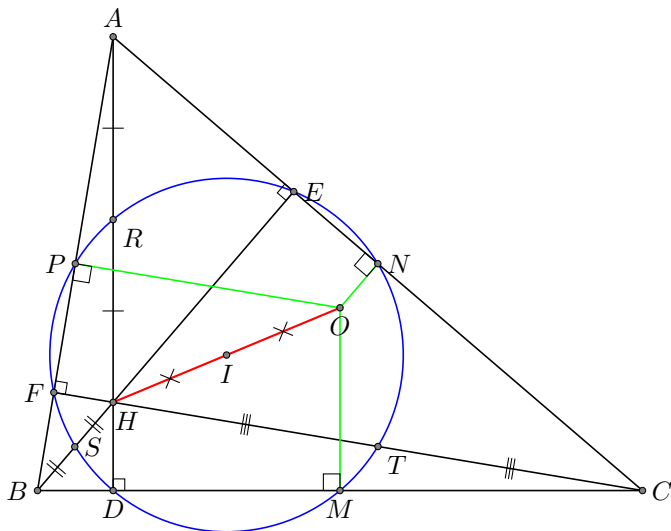
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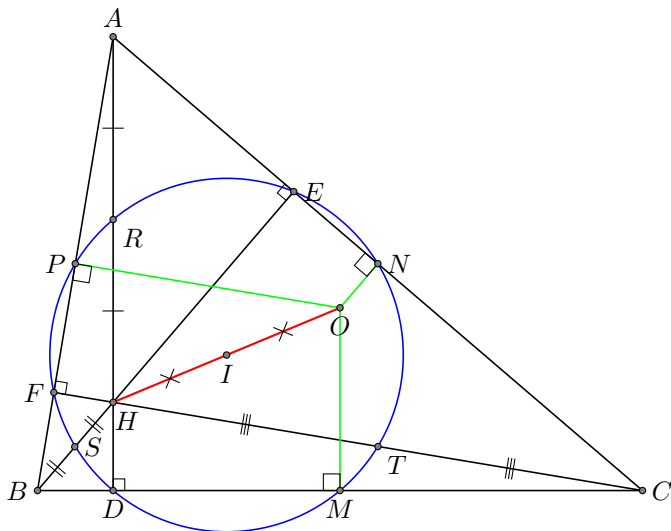
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