

Mathematics and Associated Teaching Methods II

GEOMETRY AREAS

Degree in Primary Education Teaching

School year 2017-2018

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Basic Definitions

- Area of a 2-D figure (different to surface)
- Equivalent surfaces
- Equal surfaces

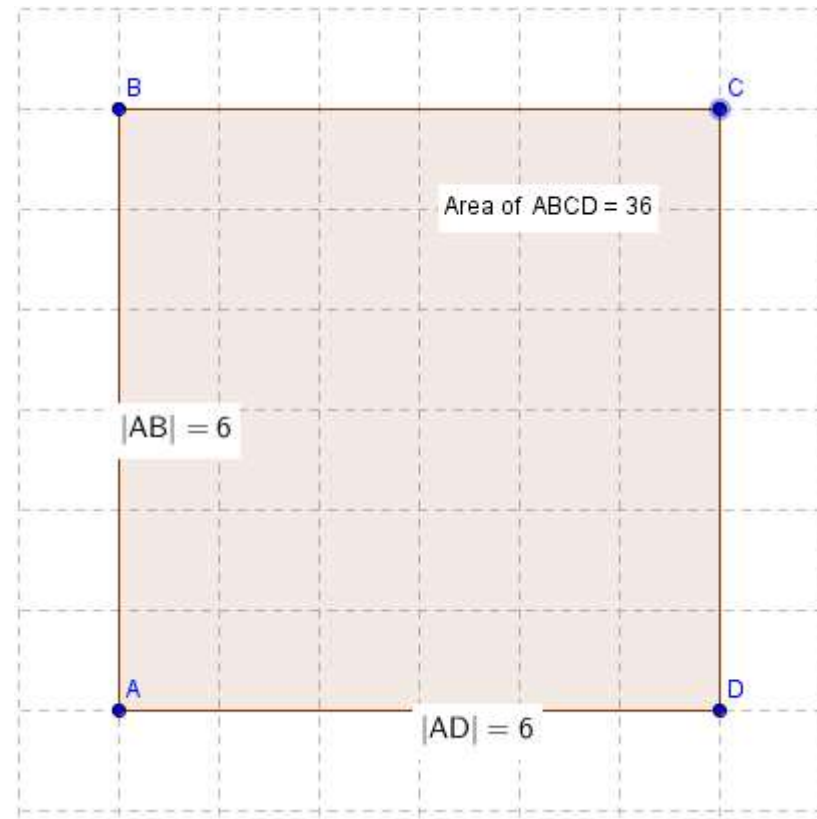
Areas

Rectangle



Areas

Square



Exercises

- The perimeter of a rectangle is 20 cm and its altitude is $\frac{2}{3}$ the longitude of the base. Calculate the area. What is the area of an square with the same perimeter?
- We have a rectangle and an square with 64 m² each one. If the base of the rectangle is twice the base of the square, calculate both perimeters.

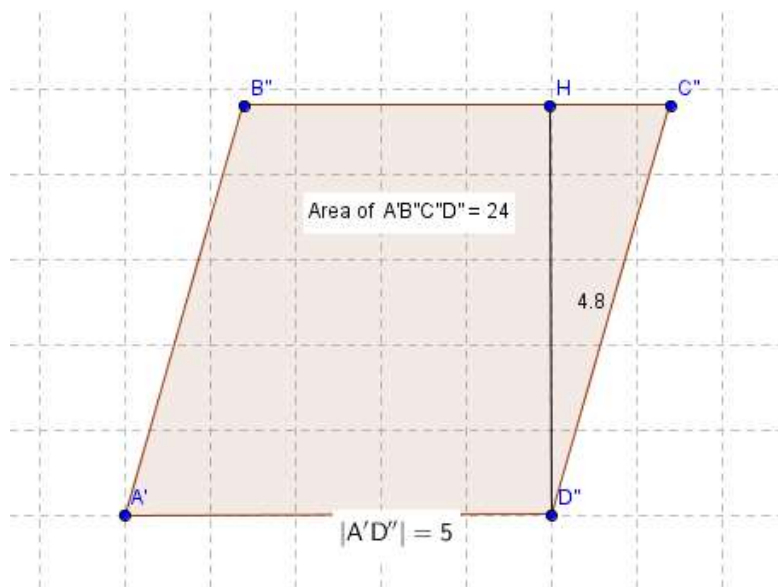
Areas

Rhomboid

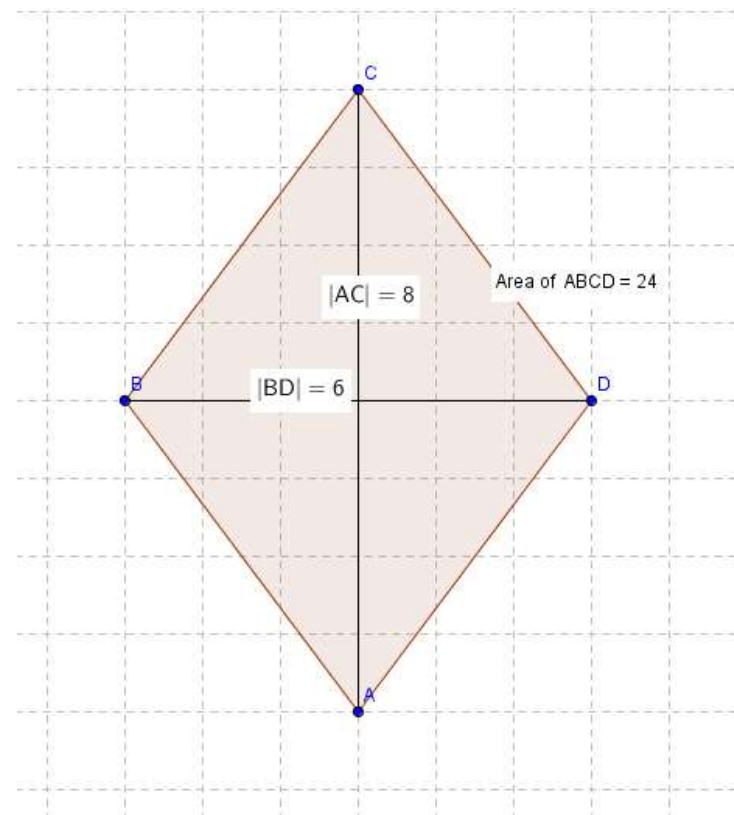


Areas

Rhombo

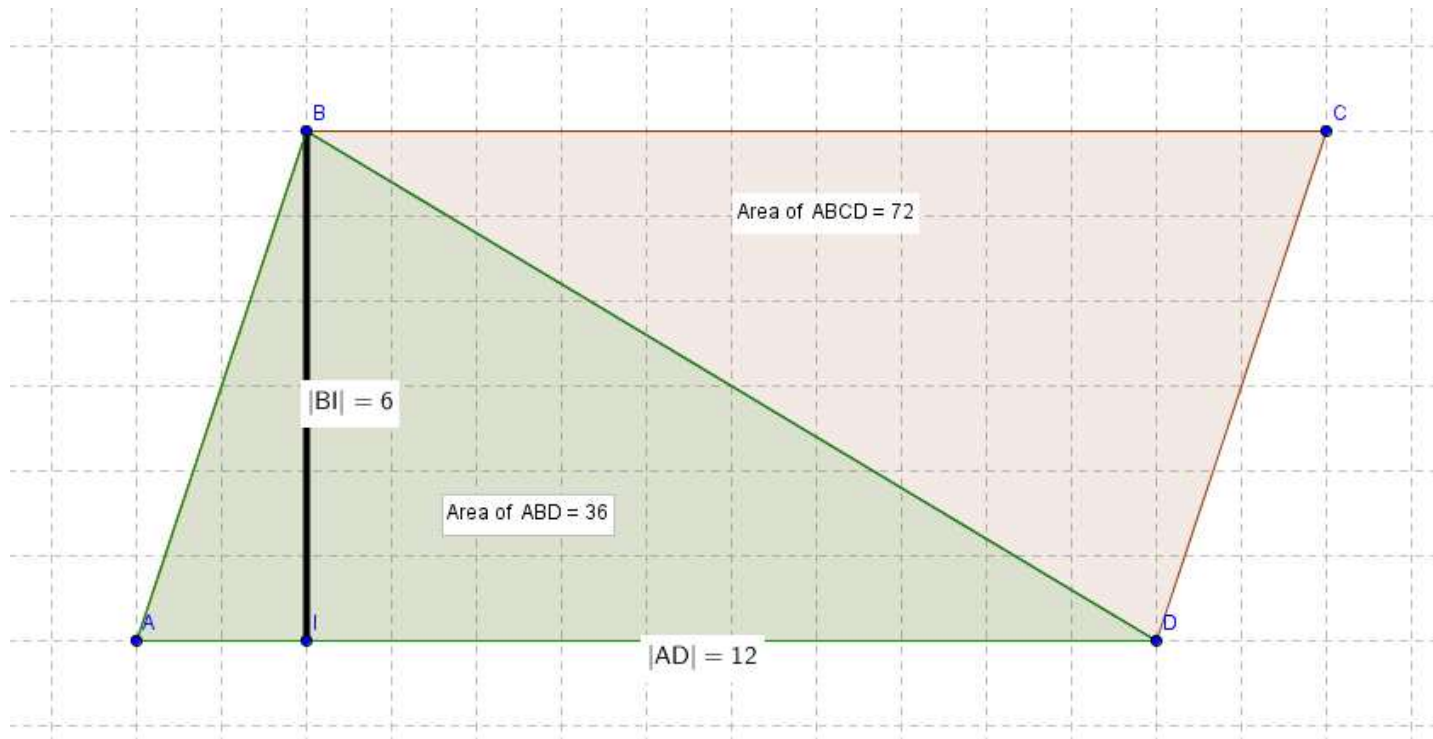


Any quadrilateral
with perpendicular
diagonals



Areas

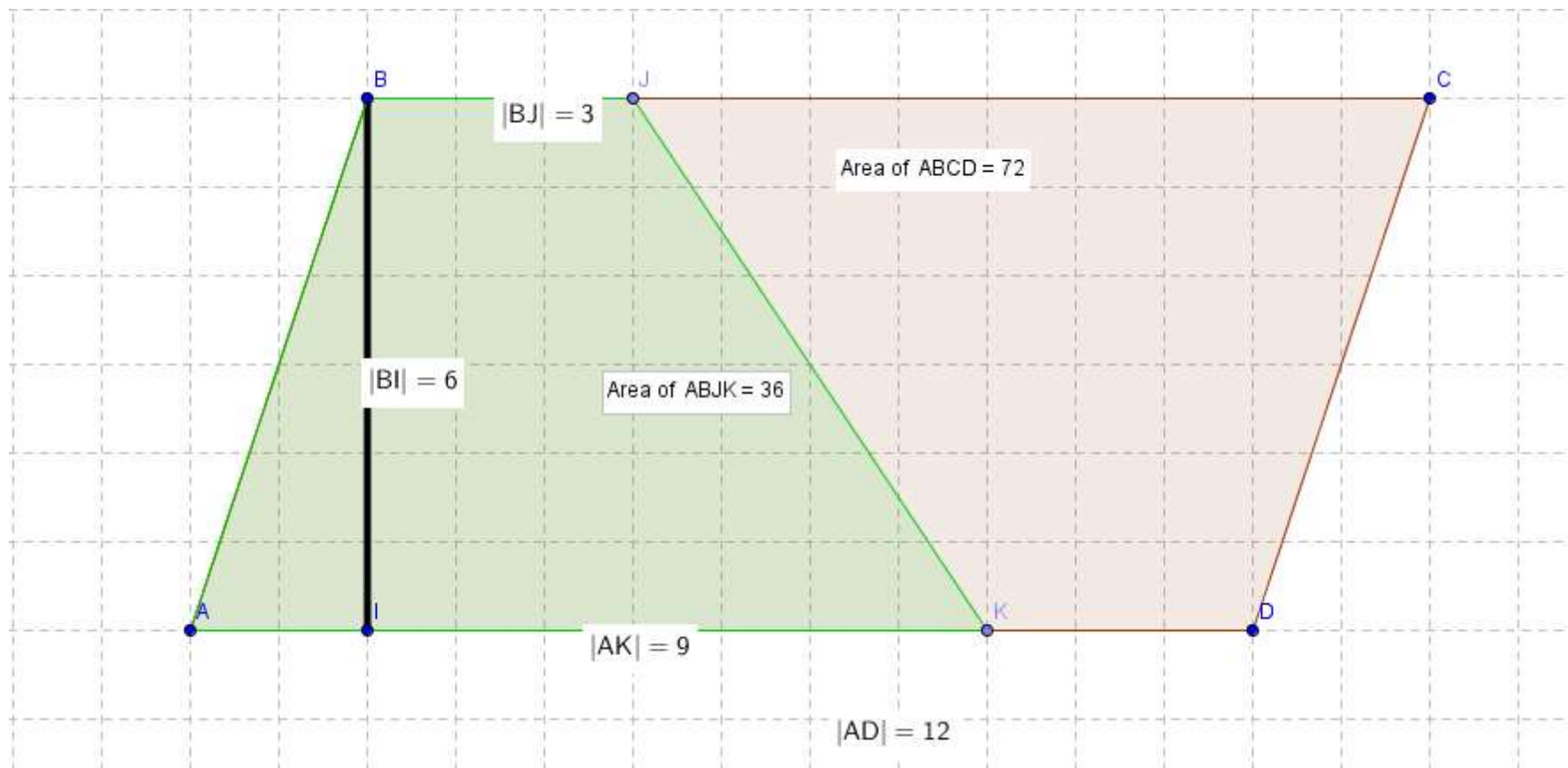
Triangle



Consequence: Triangles with the same base and altitude are equivalent.

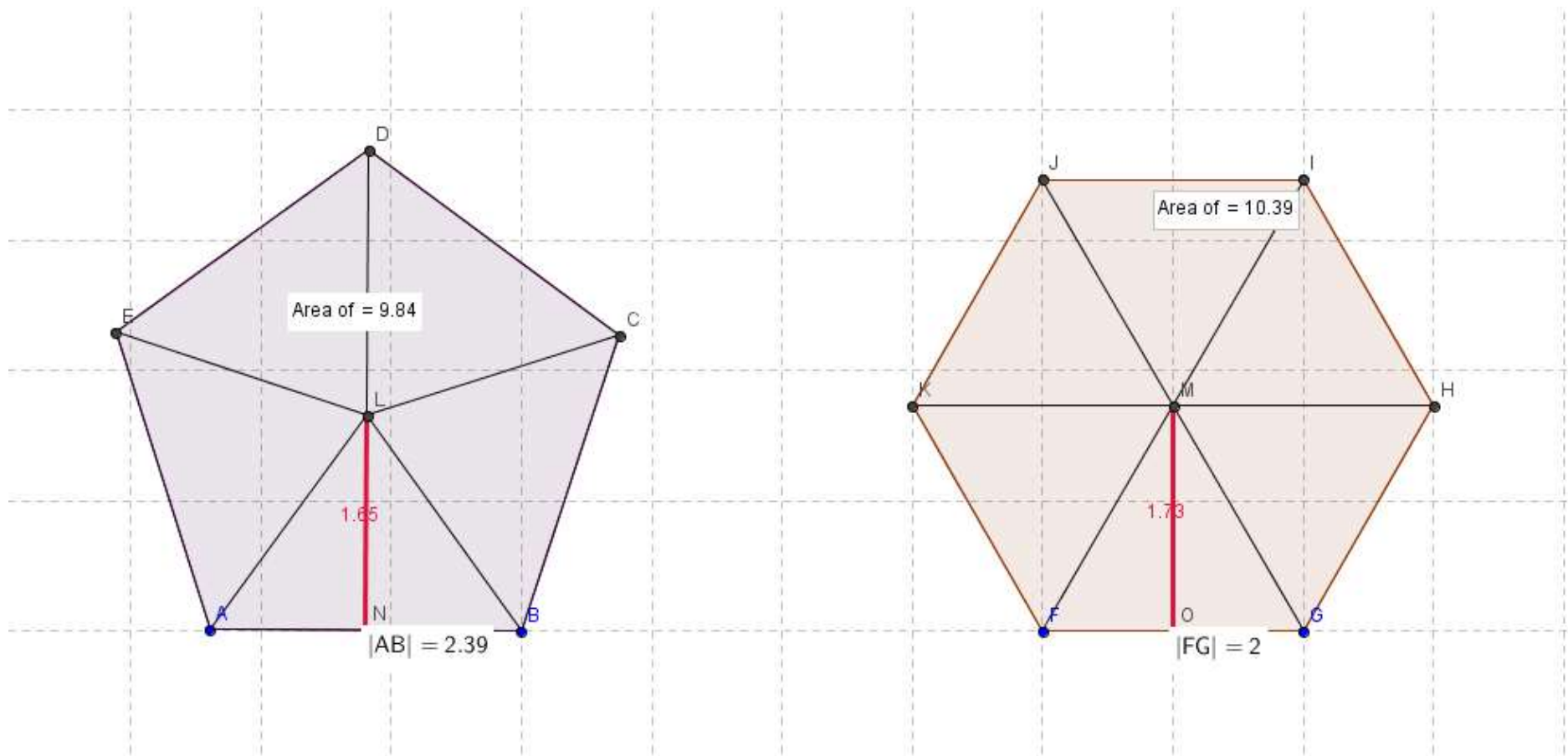
Areas

Trapezoid



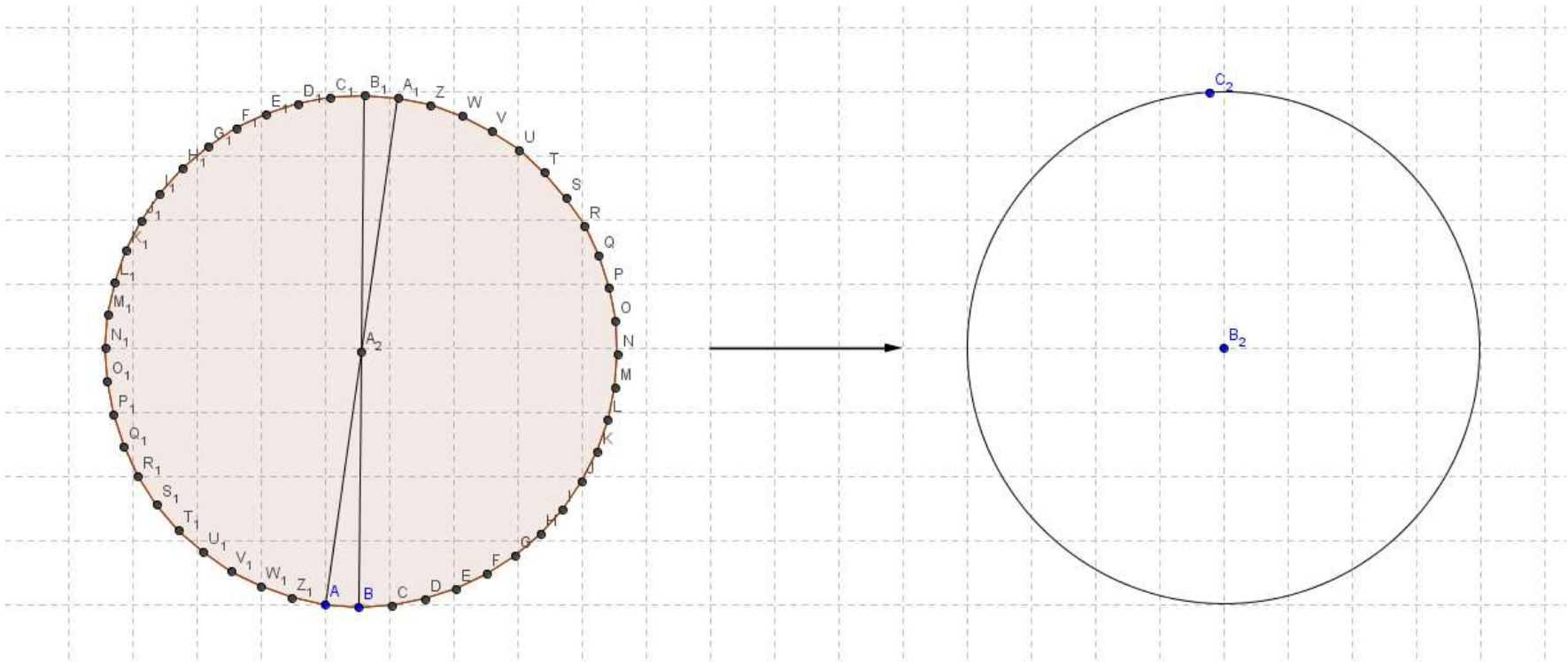
Areas

Regular polygons



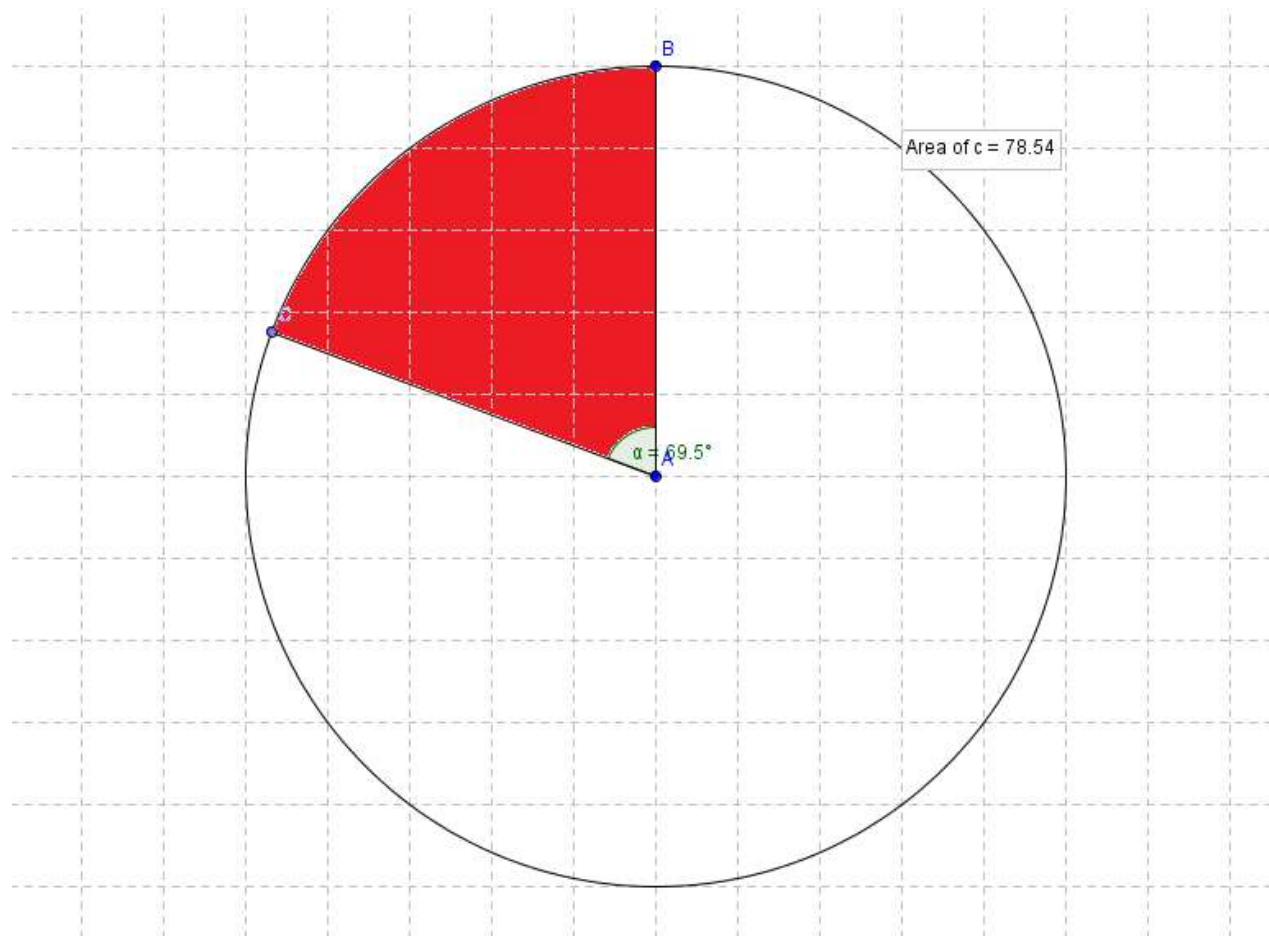
Areas

Circle



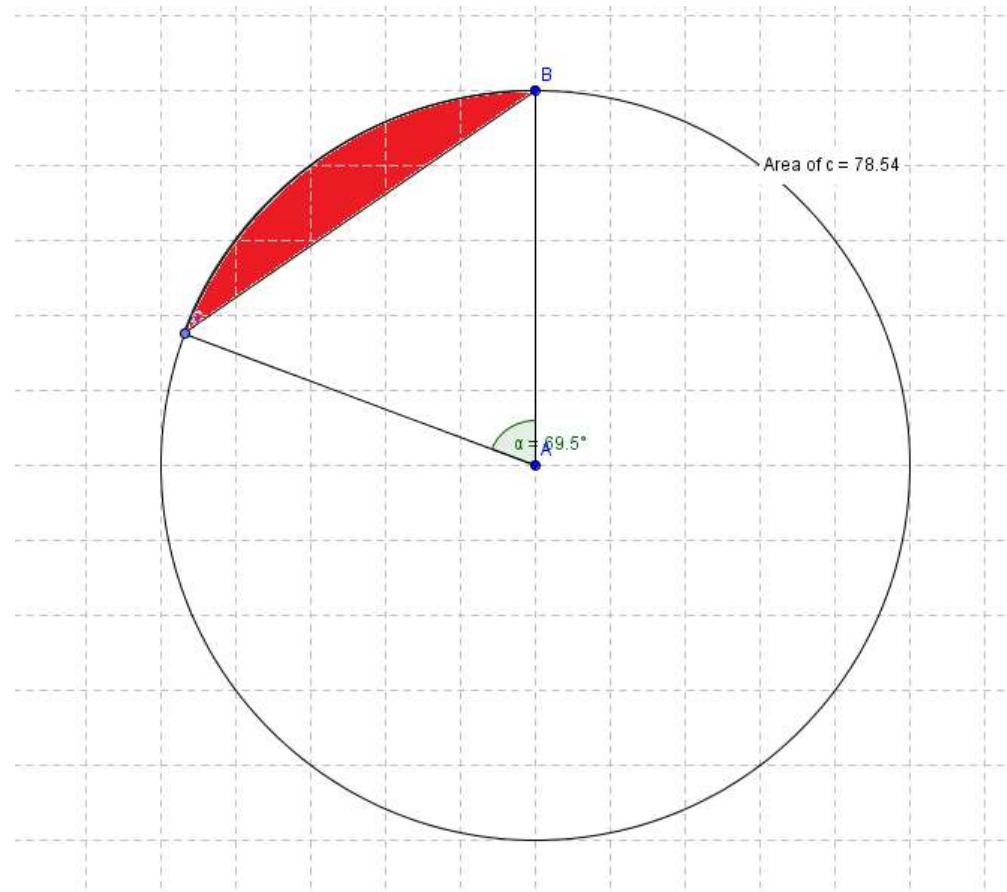
Areas

Arc sector



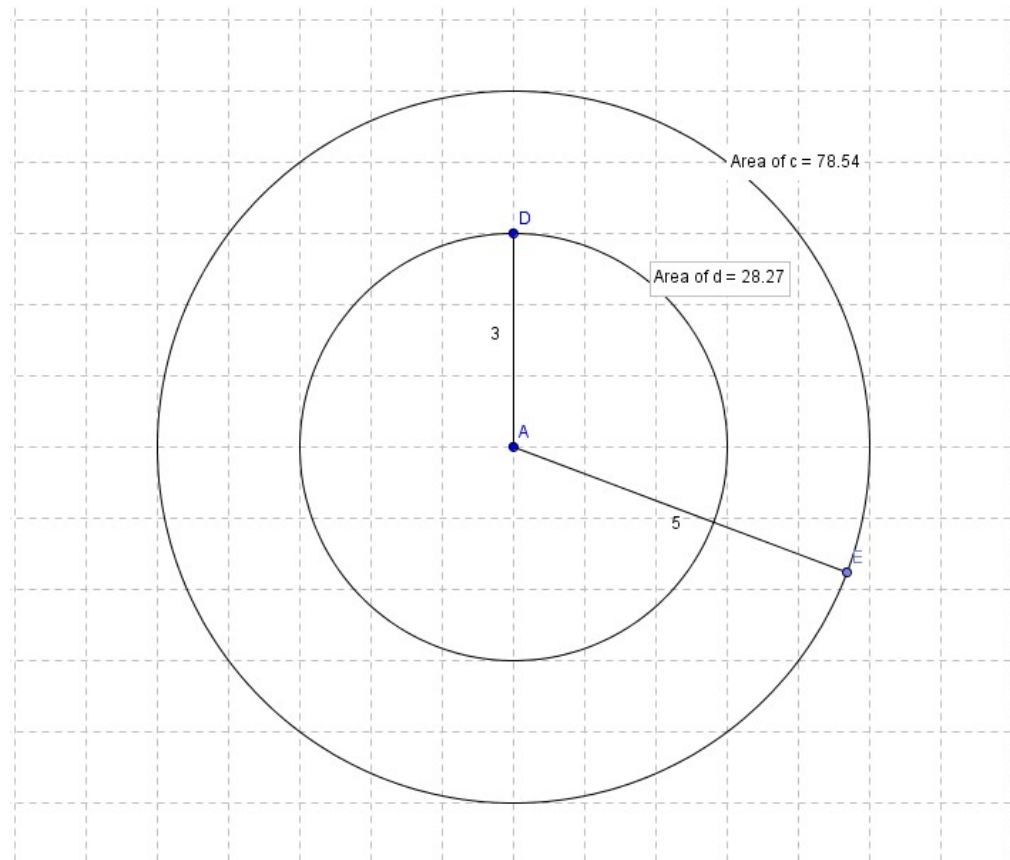
Areas

Arc segment



Areas

Circular crown



Areas

Circular trapezoid

