



INTERNSHIP

# PAVIATH INTEGRATED SOLUTION

MATHEMATIS

GE EXPRESSIONS

INTERNSHIP MATHEMATICAL TECHNOLOGY

Paviath ONLINE

■ ENGINEERING ■ POLYTECH ■ SCIENCE STUDENTS

## EXPLORE

SEE HOW YOU CAN USE GEOMETRY EXPRESSIONS FOR MATHEMATICAL MODELING, APP GENERATION AND CODE GENERATION.

FIRST TAKE A LOOK AT HOW CONSTRAINT BASED GEOMETRY WORKS, AND HOW IT ENABLES YOU TO GENERATE MATHEMATICAL MODELS.

- GETTING STARTED
- ALTITUDE OF A RIGHT TRIANGLE
- TRAPEZOID ■ ELLIPSE AS A LOCUS
- AREA OF A POLYGON
- CONSTRAINTS ■ APP GENERATION
- MATHEMATICAL MODELING
- CODE GENERATION

## MATHEMATICAL MODELING

GEOMETRY EXPRESSIONS IS A GREAT MATHEMATICAL MODELING TOOL BECAUSE IT LETS YOU EXPRESS PROBLEMS GEOMETRICALLY AND EXTRACT ALGEBRA FROM THE MODEL.

## APP GENERATION

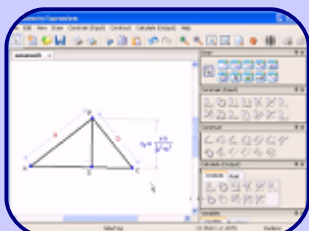
GEOMETRY EXPRESSIONS ENABLES YOU TO CREATE RICH MATH APPS, WITHOUT ANY PROGRAMMING. YOU CAN CREATE JAVASCRIPT APPS FOR EMBEDDING IN A WEB PAGE, IN FACT THE TOOL CREATES A SIMPLE HTML PAGE INCORPORATING YOUR APP. YOU GO FROM ZERO TO .HTML IN MINUTES

## SALTIRE SOFTWARE

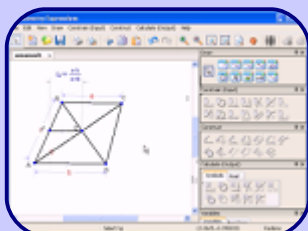
- ◆ GEOMETRY EXPRESSIONS
- ◆ IMPORT ■ FIGURE GALLERY ■ GX FILE ATLAS
- ◆ YOUTUBE TUTORIAL
- ◆ QUICK START GUIDE
- ◆ DRAW/ANNOTATE/CONSTRAIN (INPUT)
- ◆ CONSTRUCT/CALCULATE OUTPUT
- ◆ IMPORT/EXPORT

## CODE GENERATION

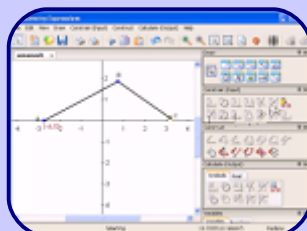
WITH GEOMETRY EXPRESSIONS, YOU CAN DRAW A DIAGRAM AND GET CODE GENERATED DIRECTLY IN ANY ONE OF A DOZEN DIFFERENT LANGUAGES. CUT AND PASTE THE CODE AND AVOID TRANSCRIPTION ERRORS!



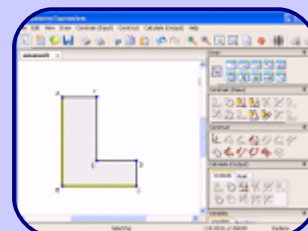
ALTITUDE OF A RIGHT TRIANGLE



TRAPEZOID



ELLIPSE AS A LOCUS



AREA OF A POLYGON



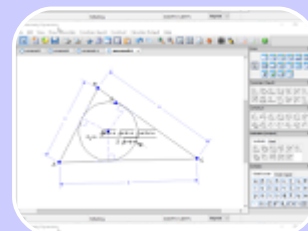
SOLAR COOKER



PIPE FITTING



REGIOMONTANUS' PROBLEM



INCIRCLE



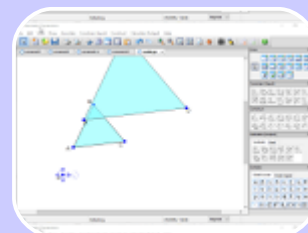
SOLAR CONCENTRATION RATIO



TRAMMEL



CAUSTIC



DILATATION

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