



PAGE 1

PAVIATH INTEGRATED SOLUTION

MATHEMATICS

GE EXPRESSIONS

GEOMETRY EXPRESSIONS

Paviath ONLINE

POLYTECHNIC • MATHS • PHYSICS • CHEMISTRY SCIENCE COLLEGES 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

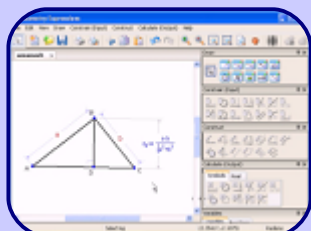
GEOMETRY EXPRESSIONS ENABLES YOU TO CREATE RICH MATH APPS, WITHOUT ANY PROGRAMMING. YOU CAN CREATE JAVASCRIPT APPS FOR EMBEDDING IN A WEB PAGE, IN FACT THE TOOL CREATES A SIMPLE HTML PAGE INCORPORATING YOUR APP. YOU GO FROM ZERO TO .HTML IN MINUTES

SALTIRE SOFTWARE

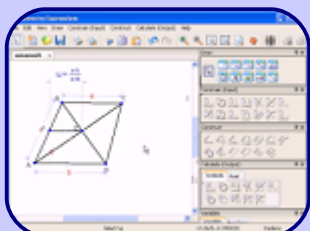
- ◆ GEOMETRY EXPRESSIONS
- ◆ IMPORT • FIGURE GALLERY • GX FILE ATLAS
- ◆ YOUTUBE TUTORIAL
- ◆ QUICK START GUIDE
- ◆ DRAW/ANNOTATE/CONSTRAIN (INPUT)
- ◆ CONSTRUCT/CALCULATE OUTPUT
- ◆ IMPORT/EXPORT

CODE GENERATION

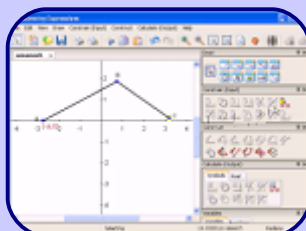
WITH GEOMETRY EXPRESSIONS, YOU CAN DRAW A DIAGRAM AND GET CODE GENERATED DIRECTLY IN ANY ONE OF A DOZEN DIFFERENT LANGUAGES. CUT AND PASTE THE CODE AND AVOID TRANSCRIPTION ERRORS!



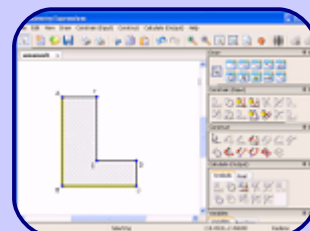
ALTITUDE OF A RIGHT TRIANGLE



TRAPEZOID



ELLIPSE AS A LOCUS



AREA OF A POLYGON



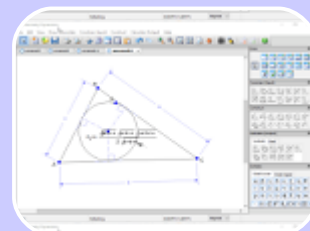
SOLAR COOKER



PIPE FITTING



REGIOMONTANUS' PROBLEM



INCIRCLE



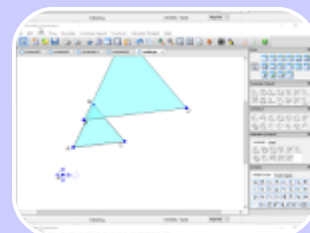
SOLAR CONCENTRATION RATIO



TRAMMEL



CAUSTIC



DILATATION