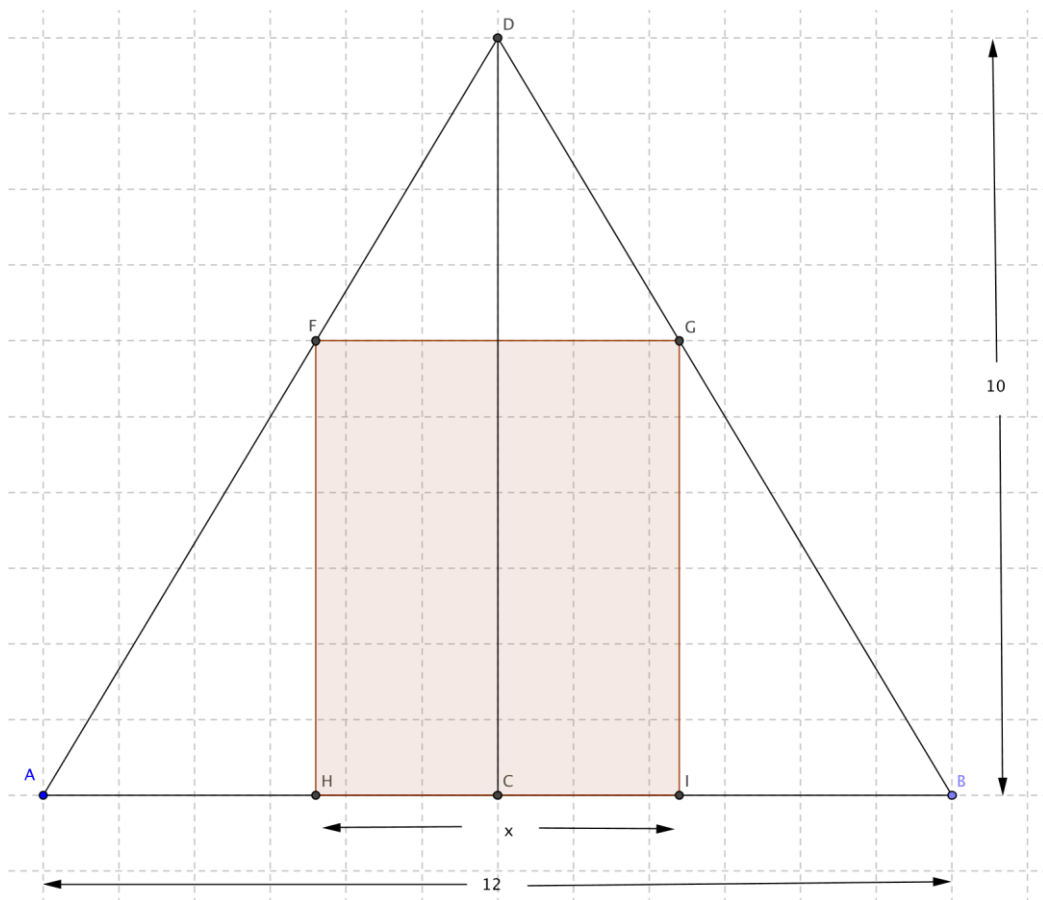


*Please do not write on this exam paper and do not forget to give it back at the end of the test*

**Subject 18 – GEOMETRY**

What are the dimensions of a rectangle of maximum area that we can inscribe, as on the figure, in an isosceles triangle of height 10 cm and of base 12 cm?



(Indication: you may call  $x$  the length of the vertex of an inscribed rectangle which is on the base of the triangle, and study the variations of the area of this rectangle in terms of  $x$ ).