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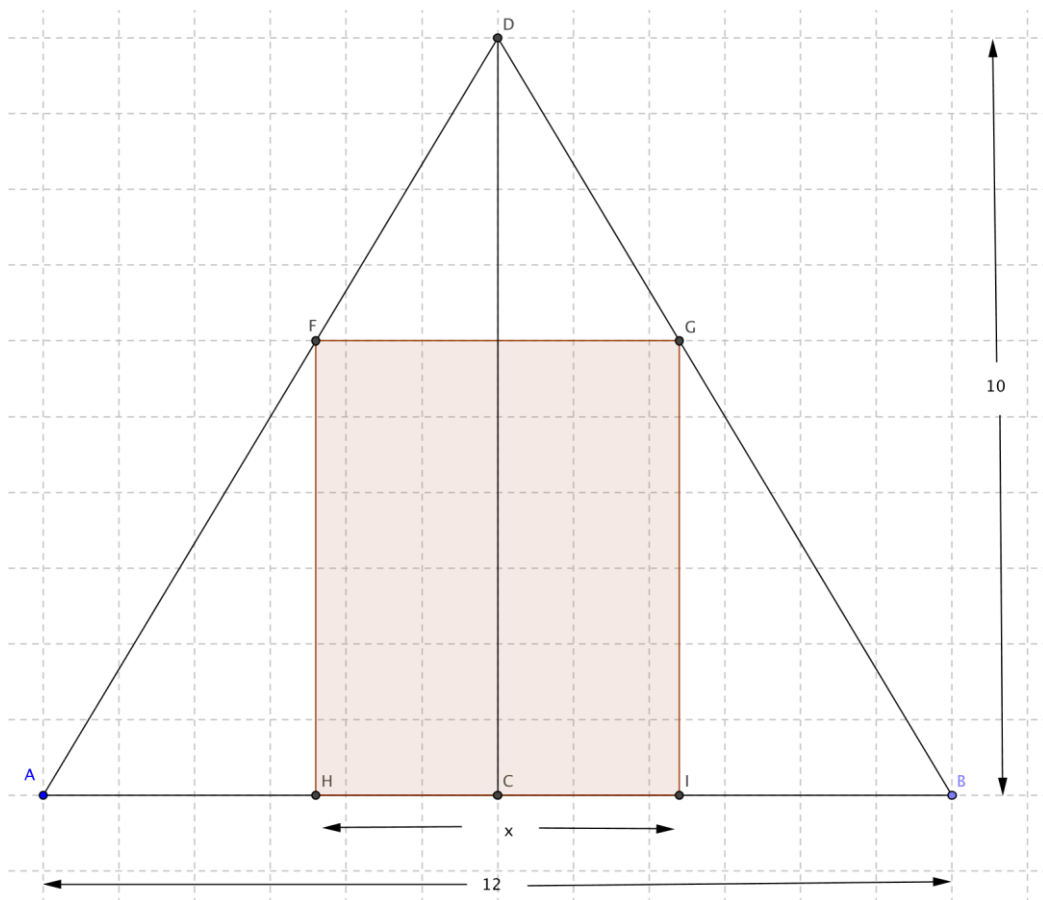
(*Indication:* you may call x the length of the vertex of an inscribed rectangle which is on the base of the triangle, and study the variations of the area of this rectangle in terms of x).