Optimization!

Math 251 Calculus 3

October 15, 2013

Warm-up

Nurl is planning to build a (rectangular prism) trophy case with five wooden sides and a glass front. He wants to make sure the dimensions of the box are 12 cubic meters. If the wood costs $5 per square meter and the glass costs $10 per square meter, what dimensions should Nurl use for the box?