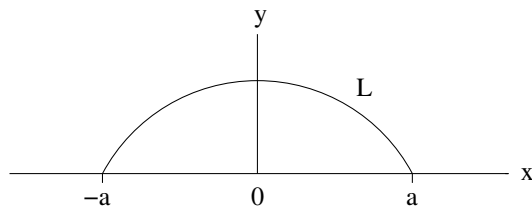


[mex28] Isoperimetric problem

Consider a fence of length L constructed in such a manner as to connect two points of a wall that are a distance $2a$ apart. Use the calculus of variation with an auxiliary integral constraint to show that the shape of the fence must be part of a circle.



Solution: