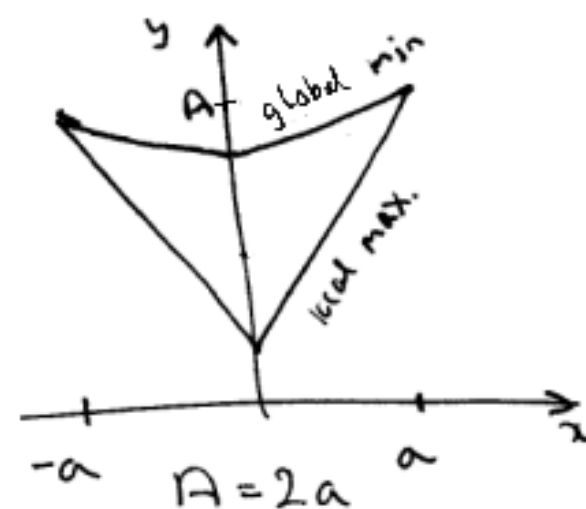


In the graph above $A=4$ and $a=2$.



Re. exercises 5.9 and 5.10

As α increases from 0 the surface area first increases to a local maximum and then decreases to a global minimum before increasing without limit.