

MATH 201
Applied maximum and minimum problems

Problem 1 *Find two real numbers whose difference is 100 and whose product is minimized.*

Problem 2 *Find two real numbers whose difference is 100 and whose product is maximized.*

Problem 3 *A rectangular plot of land is to be fenced in using two kinds of fencing. Two opposite sides will use heavy-duty fencing selling for \$3 a foot, while the remaining two sides will use standard fencing selling for \$2 a foot. What are the dimensions of the rectangular plot of greatest area that can be fenced in at a cost of \$6000?*