

CO-2
BRAIN STORMING SESSION (ALM-3)

An electronics manufacture determines that the profit P (indollars) obtained by producing and selling x units of a DVD player and y units of a DVD recorder is approximated by the following model:

$$P(x, y) = 8x + 10y - (0.001)(x^2 + xy + y^2) - 10,000.$$

Determine the production level that produces maximum profit and also obtain the maximum profit.