$X_1=\text{Units of the }1.5\text{ l COLI product to be produced}$ $X_2=\text{Units of the }1.5\text{ l PEPSA product to be produced}$ Maximize $4900X_1-X_1^2+30X_2-2X_2^2-150(X_1/40+X_2/40)$ Subject to: $X_1+X_2\leq 56800$ $X_1\leq 2X_2$ $X_1,X_2\geq 0$