**MCU504 Optimization Test**

2 Short Answer, 1 Long Answer

* Define Variables
* Translate Words to Inequalities
* Graph Inequalities (graph boundary line and shade)
* Identify Polygon of Constraints (area where all shading overlaps)
* Determine Vertices of Polygon of Constraints (using algebra: substitution, elimination, or comparison, as well as from the graph)
* Determine Optimizing Function (profit, cost, etc.)
* Apply Optimizing Function (use vertices to determine which is best: max/min)
* Know what to do if max/min is on a dotted line
* Know what to do if 2 vertices both give a max/min

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