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# Mathematics Advanced

### General Instructions

- Reading time – 10 minutes
- Working time – 3 hours
- Write using black pen
- Calculators approved by NESA may be used
- A reference sheet is provided at the back of this paper
- In Questions 11–32 show relevant mathematical reasoning and/or calculations
- Write your Student ID below and on page 7

Total marks:  
100

### Section I – 10 marks (pages 1–6)

- Attempt Questions 1–10
- Allow about 15 minutes for this section

### Section II – 90 marks (pages 7–27)

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# Hsc Trial Papers Mathematics

**J. Compton, Allyn Jones**



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to solve a linear programming problem we first need to know the fundamental theorem of linear programming given that an optimal solution to a linear programming problem exists it must occur at a vertex of the feasible set if the optimal solution occurs at two adjacent vertices of the feasible set then the linear programming problem

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for an integer programming model  $p$  the linear programming model we get by dropping the requirement that all variables must be integers is called the linear programming relaxation of  $p$  the steps are divide a problem into subproblems calculate the lp relaxation of a subproblem

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exercise 9 an optimal control problem with an analytical solution we consider the problem of maximizing a linear function of the final state of a linear system subject to bounds on the inputs maximize  $dx_n$  subject to  $u \leq u_0$   $n = 1, \dots, N$   $u_0 \leq \alpha$  where  $x$  and  $u$  are related via the recursion  $x_{t+1} = Ax_t + Bu_t$

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2018 2019 exercise 3 determine using the simplex algorithm with bland's rule the optimal solution to the following linear programming problem  $\max z = 3x_1 + 5x_2 + 2x_3 + 4x_4$   $x_1 + 2x_2 + 3x_3 + 4x_4 \leq 3$   $2x_1 + x_2 + x_3 + 2x_4 \leq 4$   $x_1, x_2, x_3, x_4 \geq 0$  solution the problem in standard form is the initial tableau is  $\min z = 3s_1 + 4s_2$

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recognize the typical form of a linear programming problem formulate maximization linear programming problems graph feasible regions for maximization linear programming problems determine optimal solutions for maximization linear programming problems

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nov 5 1998 as a linear program a computer program can be used to solve the problem in this regard solving a linear program is relatively easy the hardest part about applying linear programming is formulating the problem and interpreting the solution linear equations all of the equations and inequalities in a linear program must by definition be

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jul 18 2022 solve the following linear programming problems using the simplex method  
$$\begin{aligned} \text{maximize } z &= 12x_1 + 18x_2 \\ \text{subject to } x_1 + x_2 &\leq 12 \\ 2x_1 + 3x_2 &\leq 18 \end{aligned}$$

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formulate the appropriate linear programming problem solution a unknowns define x number of type a sheds produced each day y number of type b sheds produced each day chapter 5 linear programming exercise 5a 1 ann and margaret run a small business in which they work together making blouses and skirts

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