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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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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 $u(t) \in [0, 1]$ $\dot{x}(t) = Ax(t) + Bu(t)$ 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 $\max s.t. x_1 \leq 3, x_2 \leq 5, x_3 \leq 2, x_4 \leq 1, 2x_1 + 3x_2 + 4x_3 + 2x_4 \leq 12, 2x_1 + x_2 + x_3 + 2x_4 \leq 4, x_1, x_2, x_3, x_4 \geq 0$ solution the problem in standard form is the initial tableau is $\min s.t. s_1, s_2$

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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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