

Do 4 of the following 5 problems.

Other interesting problems: 4.1, 4.5ae,

1. Find the solution to the dual of the following linear program:

$$\begin{array}{rllll} \min & x_1 & +x_2 & +x_3 & +x_4 \\ \text{subject to} & x_1 & & +x_3 & & = & 4 \\ & & x_2 & +x_3 & +x_4 & = & 4 \\ & & & x_3 & +x_4 & = & 1 \\ & x_1, & x_2, & x_3, & x_4 & \geq & 0 \end{array}$$

What does the solution to the dual linear program tell you about the solution to the primal linear program?

2. Exercise 4.2
3. Exercise 4.4
4. Exercise 4.5bc
5. Exercise 4.8