

- [6] **5.** This problem involves an LP where some cost coefficients are not specified:

$$\begin{array}{ll}\text{maximize } \zeta = c_1 x_1 + c_2 x_2 & \\ \text{subject to } & x_1 + x_2 \leq 4 \\ & x_2 + x_3 \leq 2 \\ & x_1 - x_3 \leq 3 \\ & x_1, x_2, x_3 \geq 0\end{array}$$

Suppose a dual minimizer has the form $y^* = (3, 1, \gamma)$ for some γ . Find the maximum value of ζ .