[12] **3.** The matrix below shows the rewards to the column player in a standard zero-sum matrix game.

$$G = \begin{bmatrix} -1 & 4 & 2 \\ 7 & -1 & 1 \end{bmatrix}$$

(a) Set up a linear program to find the optimal mixed strategy for the column player.

(b) Solve the LP in part (a). (*Do at most four pivots.*)

(c) Find the optimal mixed strategy for the row player.

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