[8] **2.** Use the two-phase method to solve:

maximize
$$x_1+x_2$$
, subject to $x_1,x_2\geq 0$ and
$$x_1+2x_2\leq 10$$

$$-x_1-2x_2\leq -4$$

When there is more than one possible entering or leaving variable, choose the one with the smallest subscript.