TEST N°05:

Convert the following LPM to its dual form

Maximize: $Z = 2x_1 + 3x_2 + 5x_3$

subject to:

$x_1 + 2x_2 + 3x_3 \leq 10$ (Constraint 1)

$2x_1 - x_2 + x_3 \geq 8$ (Constraint 2)

$x_1 + x_2 - x_3 \leq 5$ (Constraint 3)

$-x_1 + 3x_2 + 2x_3 \geq 12$ (Constraint 4)

$x_1 \geq 0, \; x_2 \geq 0, \; x_3 \geq 0$