

## Big-M Methods:

*H.W (1):*

*Find the optimal solution of the following problem by Big-M method:*

$$\text{Max } Z = -5x_1 - 4x_2$$

*Subject to:*

$$x_1 - x_2 \leq 8$$

$$x_1 = 12$$

$$x_1, x_2 \geq 0$$

## ***H.W (2):***

*Find the optimal solution of the following problem by Big-M method:*

$$\text{Min } Z = x_1 + x_2$$

*Subject to:*

$$2x_1 - 3x_2 = 5$$

$$x_1 + x_2 \geq 2$$

$$x_1, x_2 \geq 0$$