

Find solution using Revised Simplex method

$$\text{MAX } Z = 2x_1 + x_2$$

subject to

$$3x_1 + 4x_2 \leq 6$$

$$6x_1 + x_2 \leq 3$$

$$\text{and } x_1, x_2 \geq 0$$

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$$\text{Max } Z = x_1 + 2x_2$$

Subject to

$$x_1 + x_2 \leq 3$$

$$x_1 + 2x_2 \leq 5$$

$$3x_1 + x_2 \leq 6$$

$$\text{and } x_1, x_2 \geq 0$$

$$\text{Max } Z = x + 3x$$

Subject to

$$X_1 \leq 5$$

$$X_1 + 2x_2 \leq 10$$

$$X_2 \leq 4$$