$$(\text{Min})\ Z = 45x_1 + 70x_2 + 50x_3$$
$$5x_1 + 4x_2 + 3x_3 \leq 82$$
$$x_1 + x_2 + 2x_3 \leq 23$$
$$2x_1 + 3X_2 + 5x_3 \leq 55$$
$$x_1 \geq 0 \quad x_2 \geq 0 \quad x_3 \geq 0$$

_____(06): (*Standard*)

$$\begin{array}{|c|}
(Min)\ Z = X + 10Y \\
12X + 15Y \leq 200 \\
6X + 4Y \leq 25 \\
Y \leq 10 \\
X \geq 0,\ Y \geq 0
\end{array}$$

$$\begin{array}{|c|}
(Max)\ Z = 120\ Y_1 + 230\ Y_2 \\
5Y_1 + 4Y_2 + 3Y_3 \leq 160 \\
2Y_1 + Y_2 = 89 \\
4Y_2 + 5Y_3 \geq 62 \\
Y_1 \geq 0,\ Y_2 \geq 0,\ Y_3 \geq 0
\end{array}$$

$$\begin{array}{|c|}
(Min)\ Z = 3X_1 + 5X_2 \\
3X_1 + 2X_2 \geq 6 \\
X_1 \leq 5 \\
X_2 \geq 1 \\
X_1 \geq 0,\ X_2 \geq 0
\end{array}$$

_____(04):

$$\begin{array}{|c|}
(Min)Z_1 = 180X_1 + 200X_2 + 150X_3 \\
X_1 + 3X_2 + 2X_3 \geq 30 \\
3X_1 + 2X_2 + X_3 \geq 20 \\
2X_1 + 5X_2 + 3X_3 \geq 75 \\
X_1 \geq 0 \quad X_2 \geq 0 \quad X_3 \geq 0
\end{array}$$

$$\begin{array}{|c|}
(Max)\ Z_1 = 20X_1 + 30X_2 + 75X_3 \\
6X_1 + 5X_2 + 4X_3 \leq 180 \\
2X_2 + 3X_3 \leq 200 \\
2X_1 + 3X_3 \leq 150 \\
X_1 \geq 0 \quad X_2 \geq 0 \quad X_3 \geq 0
\end{array}$$

_____(06):

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