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$$\begin{aligned} & \vdots \\ & \vdots \\ (Min) \quad & Z = 18X + 10Y \\ & 4X + 6Y \geq 48 \\ & 12X + 10Y \geq 120 \\ & 10X + 15Y \leq 150 \\ & X, Y \geq 0 \end{aligned}$$

$$\begin{aligned} & \vdots \\ & \vdots \\ (Max) \quad & Z = 4X_1 + 3X_2 \\ & 2X_1 + 3X_2 \leq 6 \\ & 3X_1 + 2X_2 \leq 3 \\ & 2X_2 \leq 5 \\ & 2X_1 + X_2 \leq 4 \\ & X_1, X_2 \geq 0 \end{aligned}$$

$$\begin{aligned} & \vdots \\ (Max) \quad & Z = 6X + 8Y \\ & 30X + 20Y \leq 300 \\ & 5X + 10Y \leq 110 \\ & 4X - Y = 0 \\ & X = 0 \\ & X, Y \geq 0 \end{aligned}$$

$$\begin{aligned} & \vdots \\ (Min) \quad & Z = 10X_1 + 12X_2 \\ & 5X_1 + 6X_2 \leq 60 \\ & 8X_1 + 4X_2 \leq 72 \\ & 3X_1 + 5X_2 \leq 45 \\ & X_1, X_2 \geq 0 \end{aligned}$$

$$\begin{aligned} & \vdots \\ (Min) \quad & Z = 6X + 4Y \\ & X \geq 10 \\ & Y \geq 12 \\ & X \geq 0 \\ & Y \geq 0 \end{aligned}$$

$$\begin{aligned} & \vdots \\ (Max) \quad & Z = 5X_1 + 8X_2 \\ & 6X_2 + 4X_1 \leq 24 \\ & X_2 + 2X_1 \leq 18 \\ & 3X_1 + 9X_2 \leq 36 \\ & X_1, X_2 \geq 0 \end{aligned}$$

$$\begin{aligned} & \vdots \\ (Max) \quad & Z = 50X_1 + 80X_2 \\ & 2X_1 + 2X_2 \leq 100 \\ & 4X_1 \leq 400 \\ & 8X_2 \leq 320 \\ & 40X_1 + 20X_2 \leq 1600 \\ & X_1 + X_2 \leq 30 \\ & X, Y \geq 0 \end{aligned}$$

$$\begin{aligned} & \vdots \\ (Max) \quad & Z = 5X_1 + 3X_2 \\ & X_1 + X_2 \leq 6 \\ & X_1 \leq 3 \\ & X_2 \leq 3 \\ & 2X_1 + 3X_2 \geq 3 \\ & X_1, X_2 \geq 0 \end{aligned}$$

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$$\begin{aligned}
 & \vdots \\
 (\text{Min}) \quad Z &= 6X_1 - 2X_2 \\
 X_1 + X_2 &\leq 1 \\
 3X_1 - X_2 &\leq 6 \\
 X_1 &\geq 0 \\
 X_2 &\geq 0
 \end{aligned}$$

$$\begin{aligned}
 & \vdots \\
 (\text{Min}) \quad Z &= 5X_1 + 2X_2 \\
 X_1 + X_2 &\leq 10 \\
 X_1 &= 5 \\
 X_1 &\geq 0 \\
 X_2 &\geq 0
 \end{aligned}$$

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$$\begin{aligned}
 (\text{Max}) \quad Z &= 2X_1 + 3X_2 \\
 3X_1 + 2X_2 &\leq 18 \\
 X_1 + 3X_2 &\leq 9 \\
 X_1, X_2 &\geq 0
 \end{aligned}$$

$$\begin{aligned}
 (\text{Min}) \quad Z &= 6X_1 + 3X_2 + 5X_3 \\
 6X_1 + 3X_2 + X_3 &\geq 2 \\
 3X_1 + 4X_2 + X_3 &\leq 5 \\
 X_1 &\geq 0 \\
 X_2 &\geq 0 \\
 X_3 &\geq 0
 \end{aligned}$$

$$\begin{aligned}
 (\text{Max}) \quad Z &= 24X_1 + 30X_2 \\
 4X_1 + 6X_2 &\leq 240 \\
 8X_1 + 4X_2 &\leq 240 \\
 2X_1 + 3X_2 &\leq 150 \\
 X_1 &\geq 0 \\
 X_2 &\geq 0
 \end{aligned}$$

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06.07 05

M<sub>3</sub>, M<sub>2</sub>, M<sub>1</sub>

M<sub>2</sub>

130

M<sub>1</sub>

300

M<sub>3</sub>

200

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