

* Kasus "Jalangkote dan Roti Maras"

Maximalkan: $J(x) = Px_1 + Qx_2$

Kendala : telur: $m_1x_1 + m_2x_2 \leq M$

tepung: $n_1x_1 + n_2x_2 \leq N$

x_2 (Roti Maras)

$$x_1 \geq 0 \quad x_2 \geq 0$$

$$\text{Telur: } x_2 \leq -\frac{m_1}{m_2}x_1 + \frac{M}{m_2}$$

$$\text{Tepung } x_2 \leq -\frac{n_1}{n_2}x_1 + \frac{N}{n_2}$$

Feasible Solutions: $OABC$

$O(0,0)$, $A(0, \frac{M}{m_2})$, $B(x_B, y_B)$, $C(\frac{M}{m_1}, 0)$

Corter: OA, AB, BC, CO

Gambarkan

$$J(x) = \emptyset$$

$$x_2 = -\frac{P}{Q}x_1$$

