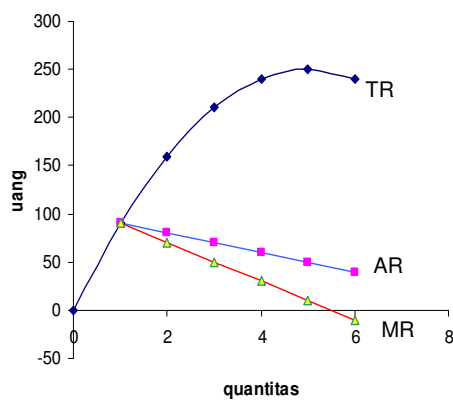


OPTIMASI EKONOMI

Dr. Mohammad Abdul Mukhyi, SE., MM

Methods of Expressing Economic Relationship

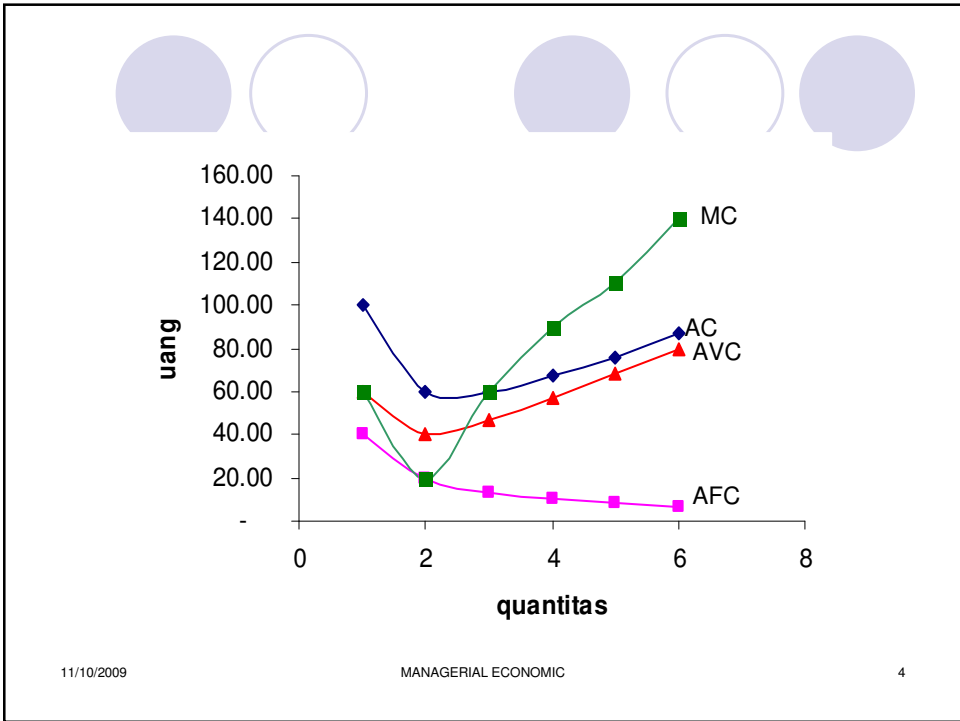
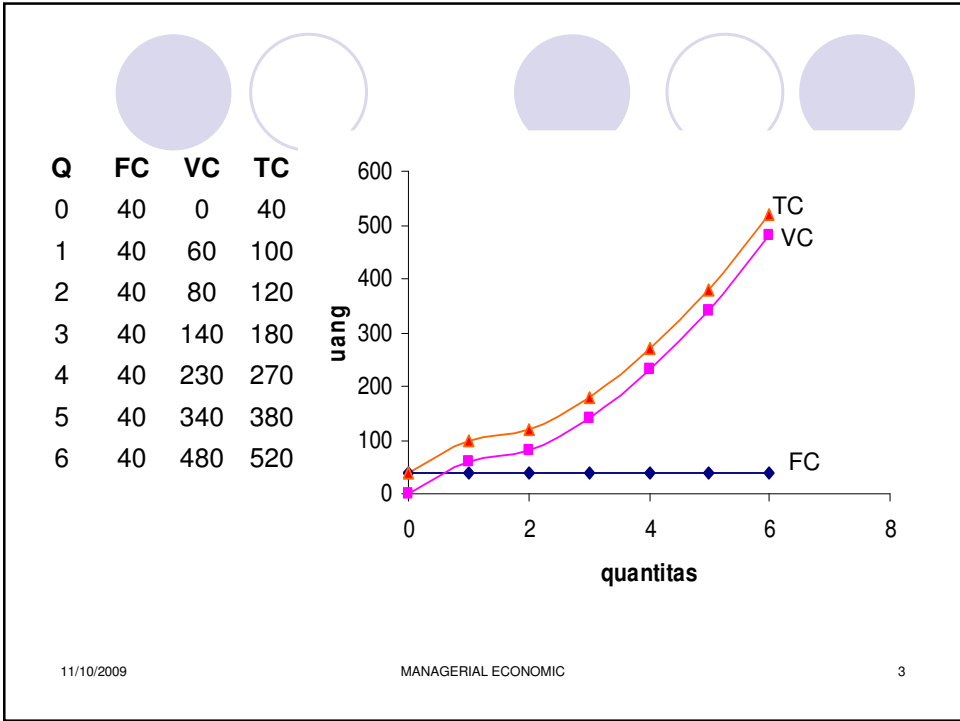
$$TR = 100Q - 10Q^2$$

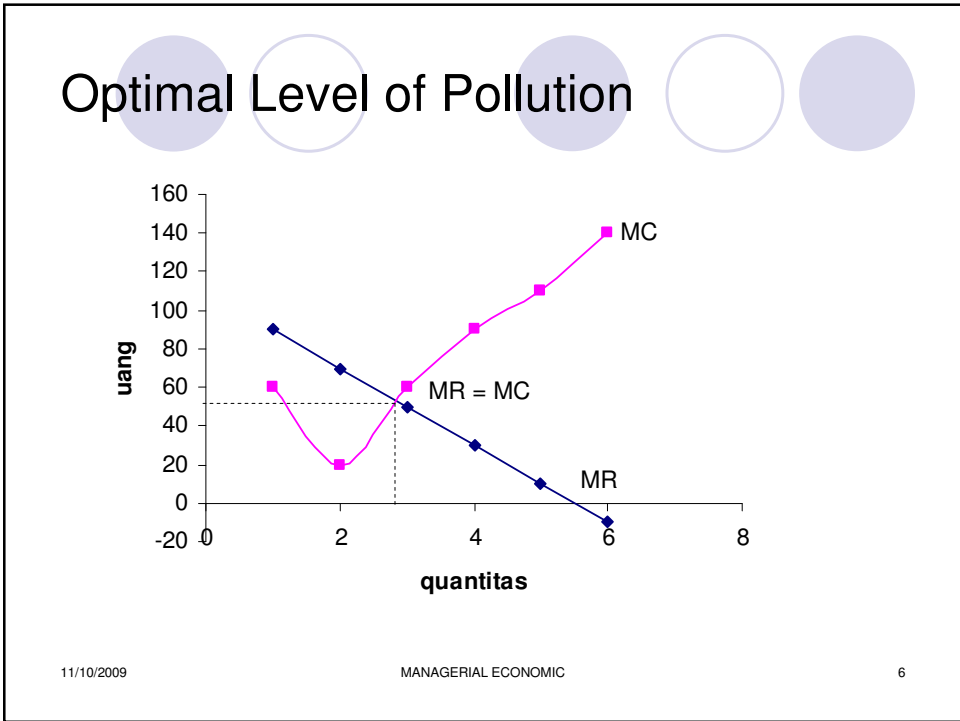
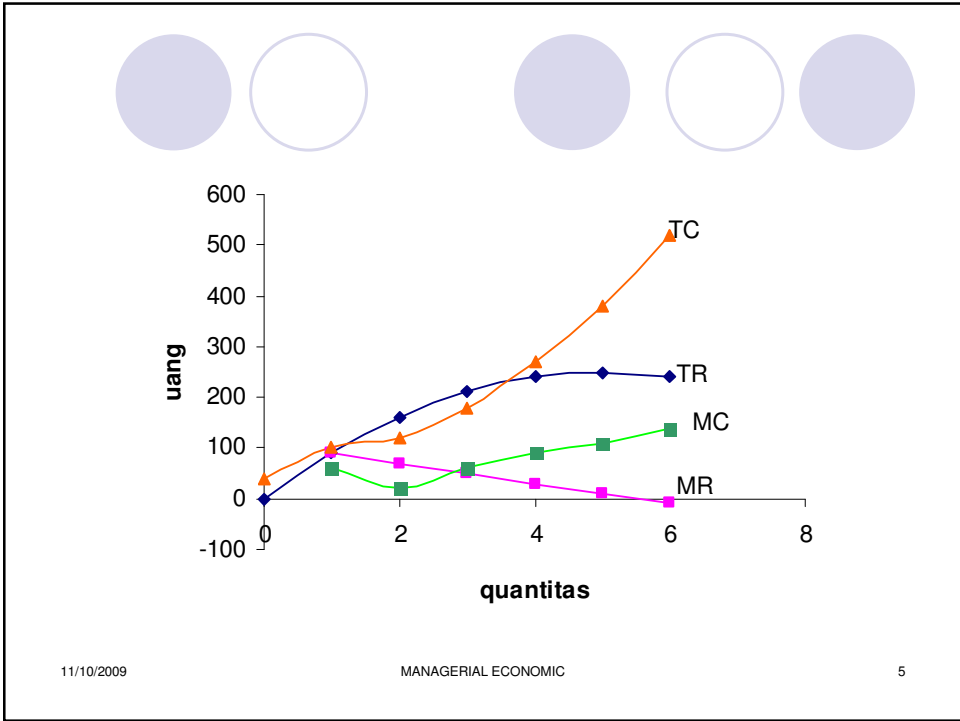


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MANAGERIAL ECONOMIC

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Optimasi with calculus

$$TR = 100Q - 10Q^2$$

$$\frac{\partial TR}{\partial Q} = MR = 100 - 20Q$$

$$Q \text{ max} = ?$$

$$100 - 20Q = 0$$

$$Q = 5$$

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MANAGERIAL ECONOMIC

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Optimasi with calculus

$$TR = 45Q - 0,5Q^2$$

$$TC = Q^3 - 8Q^2 + 57Q + 2$$

Hitung : berapa keuntungan maksimum perusahaan?

$$\Pi = 80X - 2X^2 - XY - 3Y^2 + 100Y$$

Hitung : berapa nilai X dan Y dan berapa nilai keuntungan yang diperoleh.

Bila dari soal di atas diketahui bahwa nilai konstraint output X dan output Y tidak lebih dari 12 $\rightarrow X + Y = 12$

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MANAGERIAL ECONOMIC

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