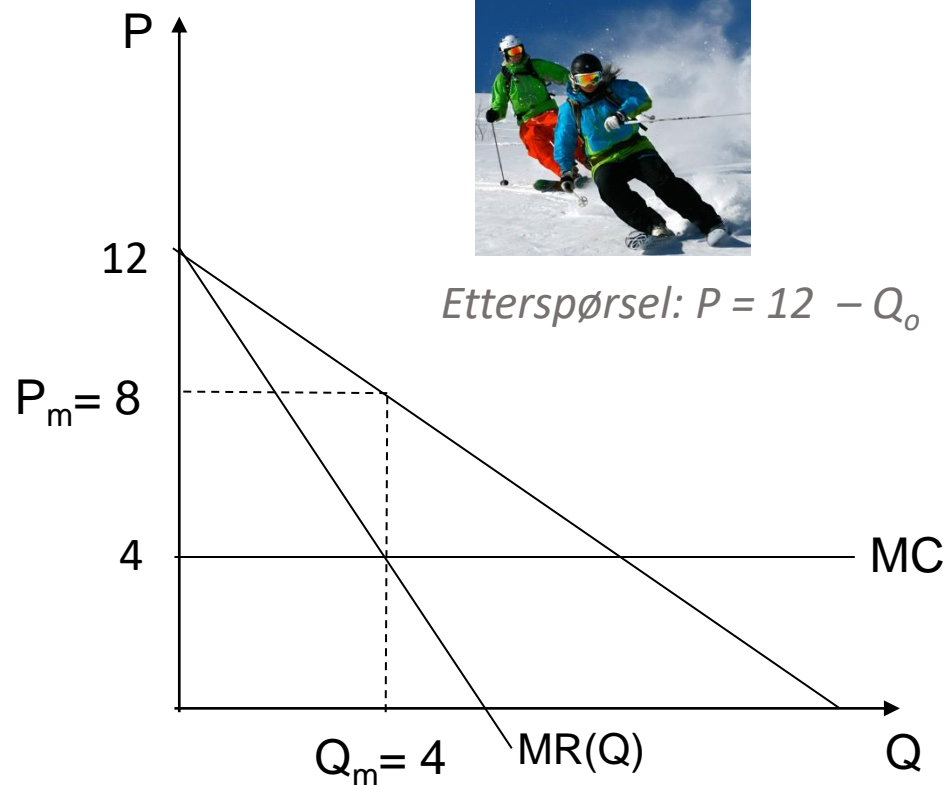


Notater til forelesning 4 – monopol og prisdiskriminering

Optimal tilpasning ved 3. grads prisdiskriminering



Etterspørsel: $P = 12 - Q_0$



$$MR_0 = 12 - 2Q_0$$

Optimal tilpasning der

$$MR_0 = MC$$

$$12 - 2Q_0 = 4 \Rightarrow Q_0 = 4$$

$$P_0 = 12 - 4 = 8$$

$$\pi_0 = 8 \cdot 4 - 4 \cdot 4 = 16$$

$$K_0 = \frac{(12 - 8) \cdot 4}{2} = 8$$

Optimal tilpasning ved 3. grads prisdiskriminering

$$MR_y = 16 - 2Q_y$$

Optimal tilpasning der

$$MR_y = MC$$

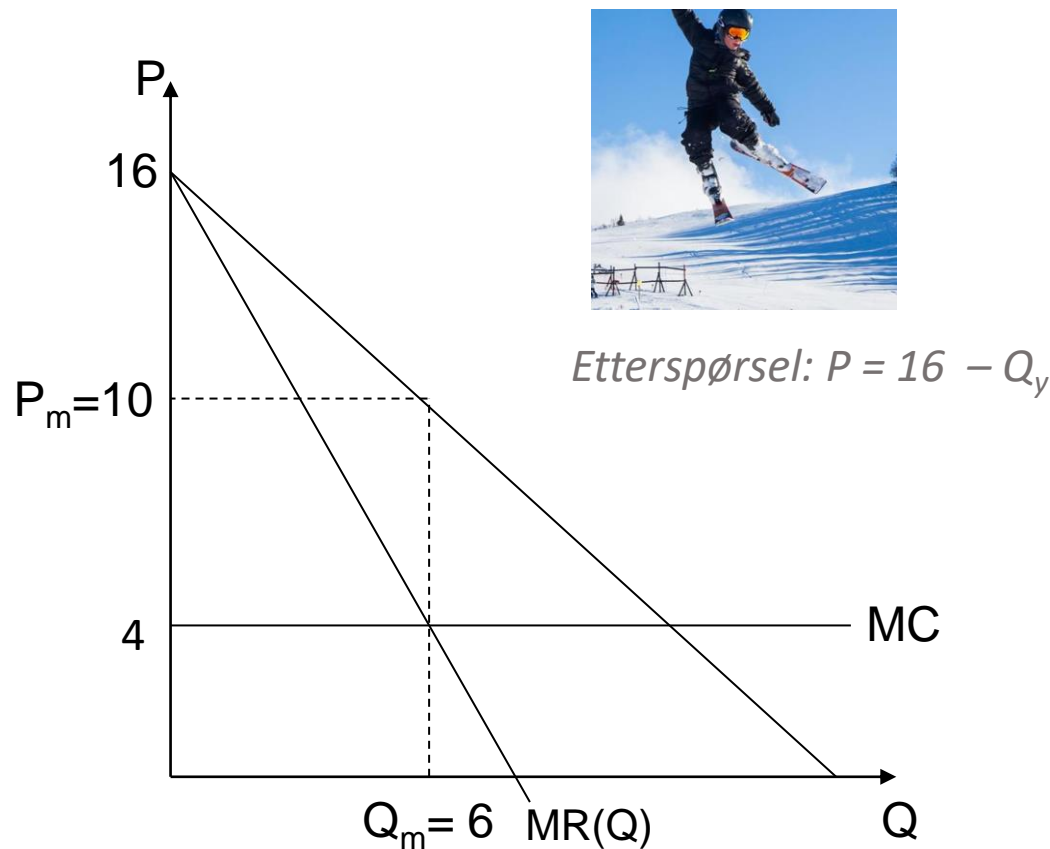
$$16 - 2Q_y = 4$$

$$\Rightarrow Q_y = 6$$

$$\Rightarrow P_y = 16 - 6 = 10$$

$$\pi_y = 10 \cdot 6 - 4 \cdot 6 = 36$$

$$KO = \frac{(16 - 10) \cdot 6}{2} = 18$$



To-delt tariff: $T(Q) = F + PQ$

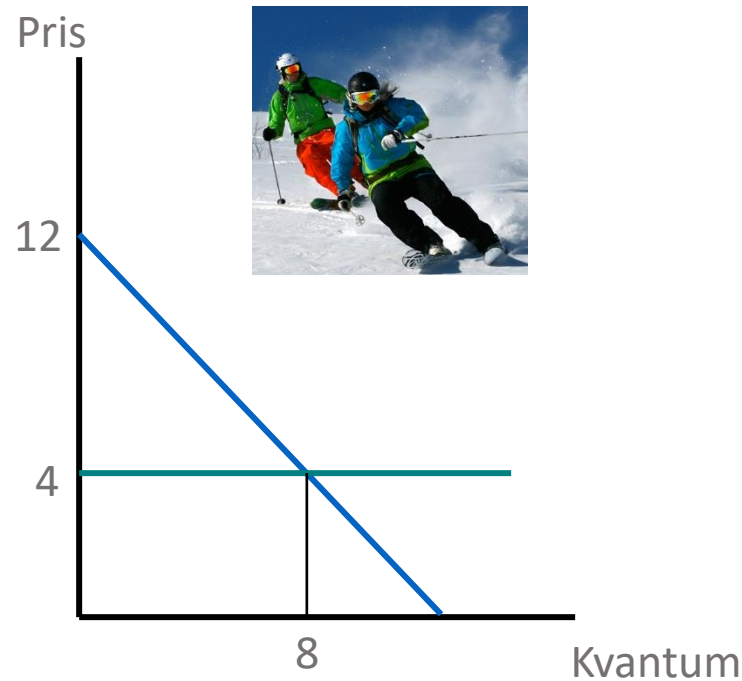
$$T_o(Q_o) = 8 + 8Q_o$$

$$\pi_o = 8 + 8 \cdot 4 - 4 \cdot 4 = 24$$

$$T_y(Q_y) = 18 + 10Q_y$$

$$\pi_y = 18 + 10 \cdot 6 - 4 \cdot 6 = 54$$

Optimal tilpasning ved to-delt tariff



Optimalt à tilpasse seg der

$$P = MC \Rightarrow P = 4$$

$$P = 12 - Q_0$$

$$4 = 12 - Q_0 \Rightarrow Q_0 = 8$$

$$CS = \frac{(12 - 4) \cdot 8}{2} = 32$$

$$\Rightarrow T_0 = 32 + 4Q_0$$

$$T_0 = 32$$

$$R_0 = 32 + 4 \cdot 8 = 64$$

Optimal tilpasning ved to-delt tariff

Optimal tilpasning der

$$P = MC \Rightarrow P = 4$$

$$P = 16 - Q_y$$

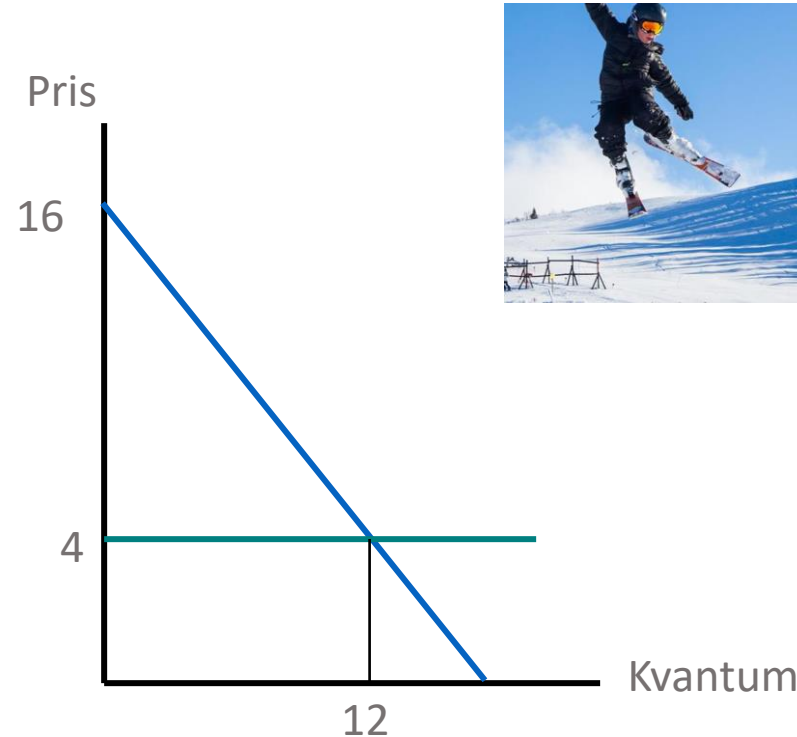
$$4 = 16 - Q_y \Rightarrow Q_y = 12$$

$$CS = \frac{(16 - 4) \cdot 12}{2} = 72$$

$$\overline{T}_y = 72 + 4Q_y$$

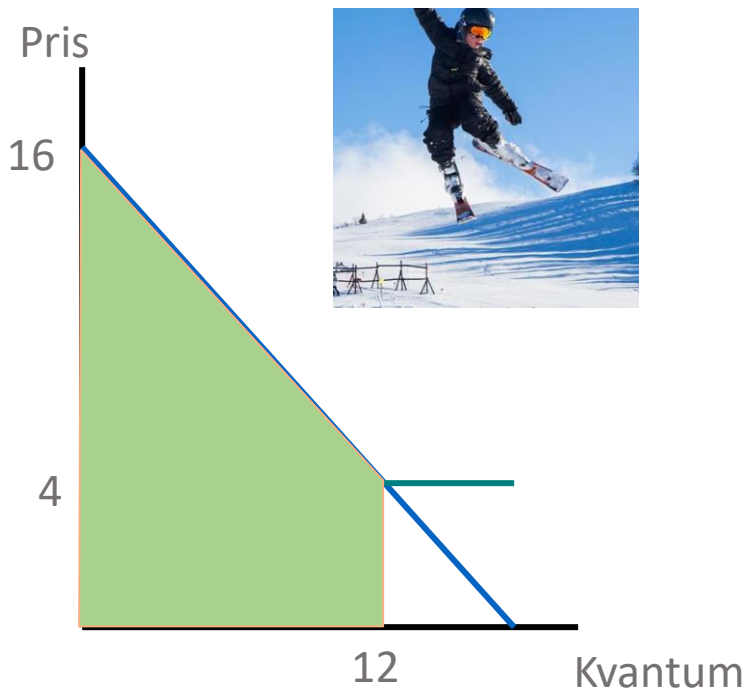
$$\overline{\Pi}_y = 72$$

$$R_y = 72 + 4 \cdot 12 = 120$$



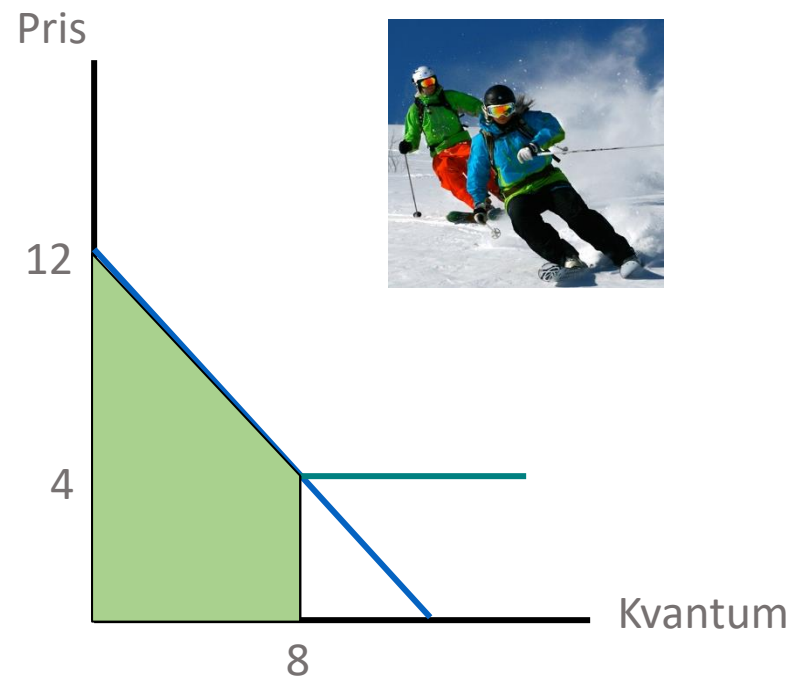
Blokkprising, kap. 6.1.2

Skisentret kan tilby en *pakke* som består av Inngang pluss X antall heisturer



$$P_y = R_y = 120$$

inkl. 12 heisturer



$$P_o = R_o = 64$$

inkl. 8 heisturer