Monopola	Inverse demand
Competitive Markets	Demand curves: (function)
- Mony firms - 'price takers'	autput: quantity
- Free entry/exit - Zero long-run T	Inverse demand:
- Single firm	output: maximum
- "Price makers" The firm can choose p - Borners to entry - Positive long-run presits	Willingness to pay for a given quantity
	Demand Function: D(P) = 9
	Inverse demand: P=D'(y)

Monopoly profits Example D(b) = 10 - 3b· Recall competitive TT: y = 10-3 p $T_{c} = p \cdot y - c(y)$ To find inverse demand, · Monopolists: simply solve los P $\pi_m = P(y) \cdot y - C(y)$ 3p+4=10 TT-max: 3p = 10-9 MR=MC MC = dc(y) (just like) P= 10-9 MR = d (P(4) 4) da p(y) = 19 - 13 MR = dirly) y + P(y) "DON'T MEMORIZE

Example

$$P(y) = \frac{10}{3} - \frac{1}{3}$$
 $R(y) = P(y) \cdot y$
 $= \frac{10}{3} - \frac{1}{3} \cdot y$
 $= \frac{10}{3} \cdot y - \frac{1}{3} \cdot y$
 $MR = \frac{10}{3} - \frac{2}{3} \cdot y$

Suppose $C(y) = y^2$
 $MR = MC$
 $\frac{10}{3} - \frac{2}{3} \cdot y = 2y$

