



Begin with an elementary model..











- + Of course $\Pi(0) = 0$.
- Firm maximises $\Pi(q)$ subject to $q \ge 0$.













- Same quadratic cost structure for both: + $C(q) = c_0 + c_1 q + c_2 q^2$
- Examine the behaviour of $\Pi(q)$



THE RESULT OF SIMPLE MARKET POWER

- * There's no supply curve:
 - + For competitive firm market price is sufficient to determine output.
 - + Here output depends on *shape* of market demand curve.
- Price is artificially high:
- + Price is above marginal cost
- + Price/MC gap is larger if demand is inelastic
- There may be no solution:
- + What if demand is very inelastic?

























MULTIPLE MARKETS AGAIN

- We've assumed that the monopolist can separate the markets
- What happens if this power is removed?
 + Retain assumptions about the two markets
 + But now require same price
- Use the standard monopoly model
 - F Trick is to construct combined AR..

...and from that the combined MR







MONOPOLISTIC COMPETITION: 1 FIRM

 For simplicity take linear demand curve (AR)

The derived MR curve Marginal and average

•Optimal output for single

Price and profits

costs

output of firm 1

MARKET POWER AND PRODUCT DIVERSITY Nature of product is a major issue in classic monopoly • No close substitutes? Otherwise erode monopoly position Now suppose *potentially* many firms making substitutes Firms' products differ one from another Each firm is a local monopoly – downward-sloping demand curve New firms can enter with new products Diversity may depend on size of market Like corner shops dotted around the neighbourhood Use standard analysis



 q^1



... process similar to competitive industry



