

More on oligopoly

Economics 121

Spring 2006

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Problem set 2

- Due now...or in Jenny's mailbox by 4pm tomorrow
- How did it go?

Horizontal Merger Risks

- Two rivals merge
 - Sprint, Nextel
 - Maytag, Whirlpool
 - Oracle, PeopleSoft
- Substantial loss of competition?
- “Merger simulation” using calibrated oligopoly model

Merger simulation

- Usually use differentiated-product static models
- Same set of products, more unified control of pricing
- (How much) does that encourage higher prices?
 - Standard deduction for merger efficiencies?

Change in residual elasticity

- Initially, each product has MC c and price p
- Residual demand elasticity $e = p / (p - c)$
- Part of this is *cross*-elasticity
 - Diversion ratio d
 - Still there post-merger, but not a loss to the firm
- Predict new price, p'

Merger simulation calculation

- The calculation
 - Responses to responses...
- Other “demand systems”
- Omits
 - “coordinated effects”, dynamics
 - Entry
 - Repositioning
 - Efficiencies

Efficiencies

- “Consumer welfare standard”: only count efficiencies in MC, to extent passed through
 - Total-surplus standard: rectangles and triangles
- Credible, “merger-specific”
 - Cooperation between rivals without merger
- How much MC reduction is enough?

PS2/review/etc

- PS2
- Entry as part of competition
 - What costs are “marginal”
 - Barriers to entry—CP perspective... LR/SR
- Studying

Empirical/statistical insights

- Discuss attempts to test/estimate relationships suggested by oligopoly models/thinking
- Complicated, problematic
- Are there “thresholds”?
- How much competition is “enough”?

Concentration, profits

- CP and others refer to profitability as “performance”
 - Inverse measure
 - What does it capture?
 - What does it leave out?
 - Low costs?
 - Variety
 - Innovation

Profit regressions

- Profits in industry k as predicted by:
 - Concentration in industry k
 - Demand elasticity in industry k
 - Entry barriers in industry k
 - Other factors

Problems with Profit Regressions

- Measurement error on both sides
- Error measuring profits
 - Accounting problems
 - Capital
 - Consequence: estimates more random, less likely to look statistically significant
 - Not biased
- Beware of MDs, journalists discussing statistics!

Measurement error in concentration

- Market definition
 - “Right” measure of concentration
- Random errors in right-side variable bias estimated effects toward zero
 - Understanding why...
 - The reverse regression—how much does it help?

Next Tuesday

- Remember my AM office hours
- Finish off this chunk of oligopoly, further applications
- Any questions before midterm 2
- What’s next: “business practices”