# **Draw Best Diagrams for 1.5**

### The 'green box' How to draw diagrams accurately?

#### **Instructions for Tutors:**

- 1. Before working with your group practice the drawing of an accurate diagram to show a firm with the following outcomes. (This is one example and other outcomes could be selected.)
  - 1) maximum profit (mr =mc)
  - 2) with supernormal profit (ar > ac)
  - 3) and productive inefficiency. (mc not equal to ac at lowest point)
  - 4) Now study the **5 tips** below to help you. Use the diagram below to identify these 3 key points in all diagrams for market power (in this case Monopolistic competition). Note that this diagram highlights the point of productive efficiency i.e. mc = ac at lowest point.
  - 5) When you have mastered it then ask your group to complete the Task Sheet on page 3.

5 tips on how to draw accurate diagrams firms in monopolistic, oligopoly and monopoly. These are firms with market power and have downward sloping demand curves. See Diagram below for assistance.

# **5** Tips...

E.G. Decide what you want to draw. For example draw a firm making supernormal (s/n) profits that is productively inefficient:

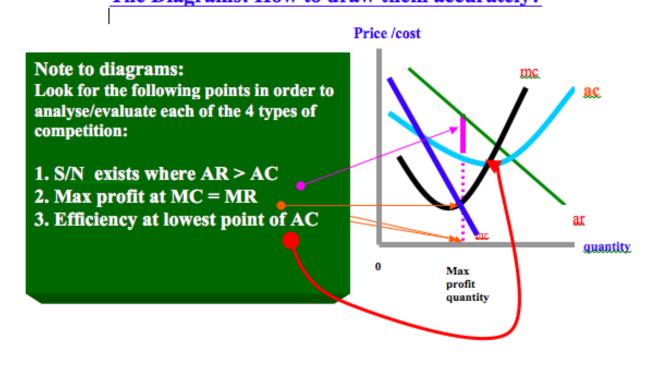
- 1. Draw AR and AC
- 2. Select a max profit quantity of output on the X axis
- 3. from this point highlight S/N profit where AR >AC (= S/N profit). At this point decide if you want to draw the firm as inefficient or not. (As the firm is productively INefficient then mark max profit on the x axis where AC is not at its lowest point e.g. to the left of the lowest point on AC)
- 4. Add in MC cutting AC (at lowest point)
- 5. Add in MR. It must match with where you have marked the profit maximising level of output (practice drawing this on a blank paper). Your diagram is perfectly accurate. You can now analyse the firm (it can be a monopoly or oligopoly or monopolistic firm) in terms of supernormal profits and productive inefficiency.

Note: remember for PC and monopolistic: AC=AR in long run Note: For PC ar = mr is drawn horizontal for PC as firm as no price power.

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# Figure 1: 3 Key points for every market power diagram

# The Diagrams: How to draw them accurately?



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### **TASK SHEET**

Approximate Duration 30 minutes

Group Task Instructions: Peer tutors lead this exercise.

- 1. (10 Minutes) Without any assistance ask members of the group to draw a diagram for *monopolistic competition* showing a firm that is making supernormal profits and is productively inefficient (consider also allocative efficiency here and whether the model is good for society). Note carefully, the firm is a profit maximiser.
- 2. (15 Minutes) Explain the 5 steps to drawing the diagram accurately to show supernormal profit and inefficiency for a firm in monopolistic competition.
- 3. (5 Minutes) Then ask students to complete task 1 again. Note: this system can be used for different objectives e.g. efficiency, normal profit etc

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