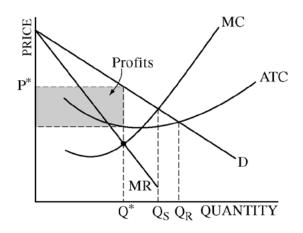
AP[®] MICROECONOMICS 2009 SCORING GUIDELINES

Question 1

11 points (5 + 2 + 1 + 2 + 1)



(a) 5 points:

- One point is earned for a correctly labeled graph for CableNow, with a downward-sloping demand curve and with the marginal revenue curve below the demand curve.
- One point is earned for identifying the profit-maximizing quantity of cable services, Q*, at MC = MR.
- One point is earned for identifying the profit-maximizing price of cable services, P*, on the demand curve above Q*.
- One point is earned for showing the area of economic profit, completely shaded.
- One point is earned for identifying the socially optimal level of cable services, Q_s, where the MC curve intersects the demand curve.
- (b) 2 points:
 - One point is earned for stating that the lump-sum subsidy will have no impact on the quantity of services CableNow produces.
 - One point is earned for explaining that the lump-sum subsidy will not affect MC.

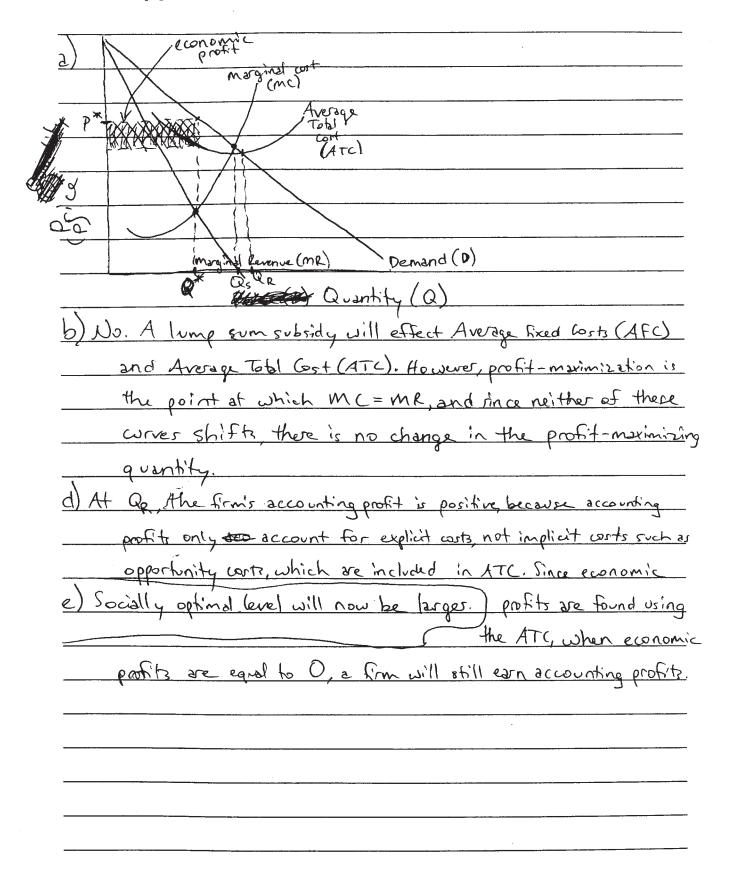
(c) 1 point:

• One point is earned for identifying the quantity of cable services, Q_{R_i} where the ATC curve intersects the demand curve.

(d) 2 points:

- One point is earned for stating that accounting profit is positive.
- One point is earned for explaining that accounting profit excludes implicit costs.
- (e) 1 point:
 - One point is earned for stating that the socially optimal quantity will be larger than Q_s.

Write in the box the number of the question you are answering on this page as it is designated in the exam.



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PAGE | OF 2 Write in the box the number of the question you are answering B on this page as it is designated in the exam. CableNow Q P MC ATC P* 2 Re Θ subsidy from the government of "I million 10mp-sum nnong rable Now's 47 M9 profit maximizing avantitu P MC. because cable Nows marginal cost while is also their auditude curve and a government would shift supply to MR the right the marginal cost **Q**1 Q2 Q Q==new profit maximizing While whift to the naht increasing quantity the avantity supplied see graph on part (a) accounting profit QR. the firm's is positive because At Mille the firm is earning Zero pronomic profit. this consideration the publicit laccounting takei aswell INTO YOULDONLOG COSHT implicit leconomic COSHS acounting protit takes VICIXY into consideration 77707 ma greater than enonomic profit, and therefore greater than ZED.

PAGE 2 OF 2 Write in the box the number of the question you are answering IB on this page as it is designated in the exam. e) if it is found that there are external benefits associated with watching try, the socially optimum quantity will be larger than the quantity found in xternal benefits are found. there Da 10111 be an increase in demand for watching ty. This *UN* shift the demand curve for cable Nous to the Will asing the socially optimal avantity where nant NUCKE firm's marginal cost or supply curve INHPITPOLH? with the demand while

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10 Write in the box the number of the question you are answering ł on this page as it is designated in the exam. MC AT C Price ₽K. MUMPHUM QR 4 Gt Qs Quantitu 'UN P tc, E. arger

AP[®] MICROECONOMICS 2009 SCORING COMMENTARY

Question 1

Overview

This question tested students' ability to draw and work with a monopoly graph. Part (a) asked students to use a monopoly graph to determine profit-maximizing price and quantity, profit, and the socially optimal output level. Part (b) tested students' understanding that a lump-sum tax does not affect the profit-maximizing output level. Part (c) asked students to identify the quantity regulators would require in order to allow zero economic profits. Part (d) tested for an understanding of the difference between accounting profit and economic profit. Part (e) asked students about the effect of a positive externality on the socially optimal quantity.

Sample: 1A Score: 11

The student earned all 11 points for this question.

Sample: 1B Score: 7

The student earned 4 of the 5 part (a) points but lost 1 point in part (a)(iii) for improperly shading the economic profit by using the minimum point on the ATC. The student earned both points in part (d) for correctly explaining positive accounting profits. The student earned 1 point in part (e) for stating that the socially optimal output would be larger than Q_s .

Sample: 1C Score: 3

The student earned 1 point in part (b) for stating that there is no impact on the profit-maximizing quantity resulting from the lump-sum subsidy. The student earned 1 point in part (d) for saying that accounting profits would be positive. The student earned 1 point in part (e) for stating the socially optimal output would be larger than O_s .