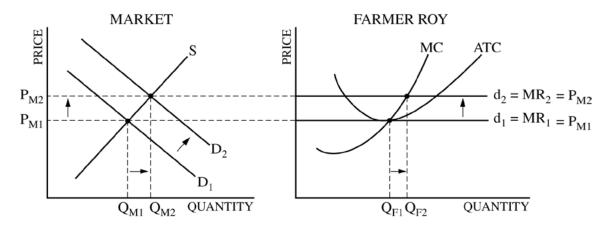
AP® MICROECONOMICS 2010 SCORING GUIDELINES

Question 1

10 points (4+1+4+1)



(a) 4 points:

- One point is earned for a correctly labeled graph of the corn market (S, D, P_{M1} , Q_{M1}).
- One point is earned for the graph of the firm with a horizontal demand curve at P_{M1} .
- One point is earned for showing the profit-maximizing quantity, Q_{F1} , at MC = MR.
- One point is earned for showing minimum ATC on the horizontal demand curve at O_{F1}.

(b) 1 point:

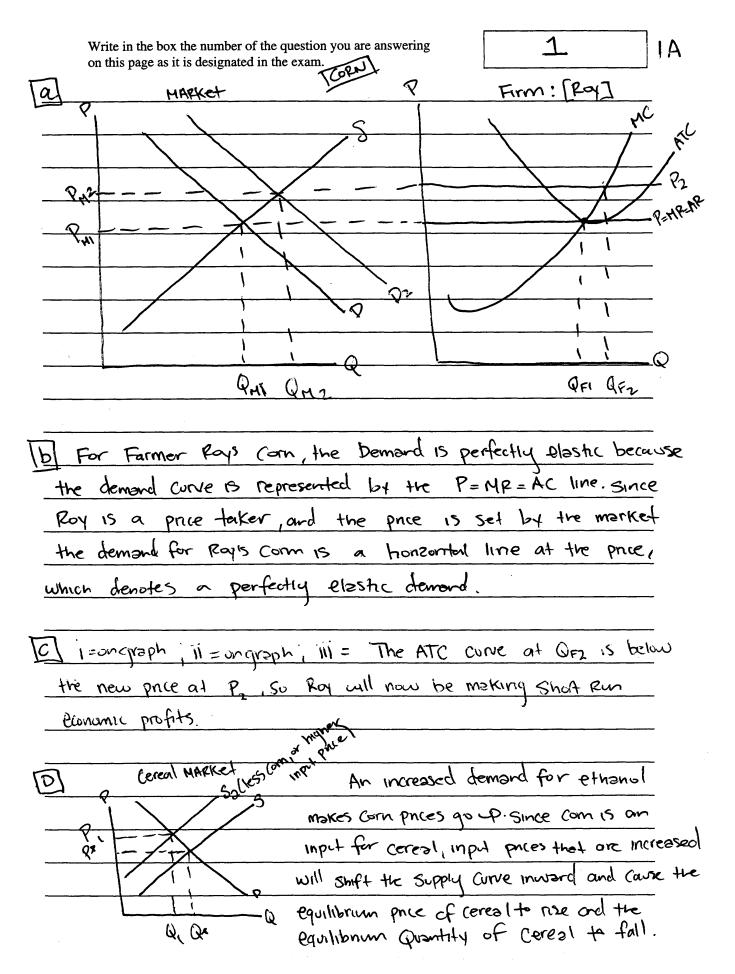
• One point is earned for stating that the demand curve for Farmer Roy's corn is perfectly elastic because Farmer Roy is a price taker or because he can sell all that he wants at the market price.

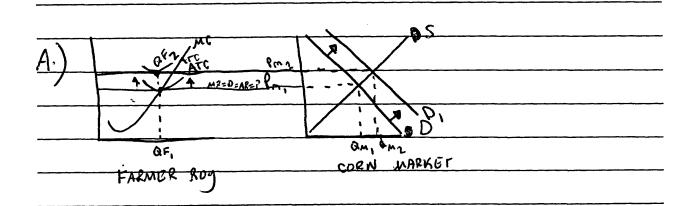
(c) 4 points:

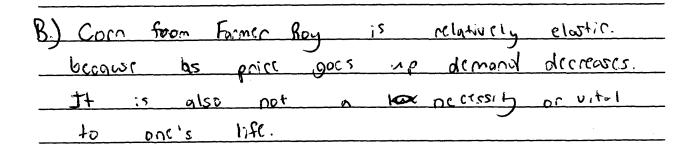
- One point is earned for shifting the market demand curve to the right and showing P_{M2} and O_{M2} .
- One point is earned for shifting the firm's demand curve upward to the level of P_{M2}.
- One point is earned for showing the profit-maximizing quantity, O_{F2} , at MC = new MR.
- One point is earned for stating that ATC at O_{F2} is lower than P_{M2} .

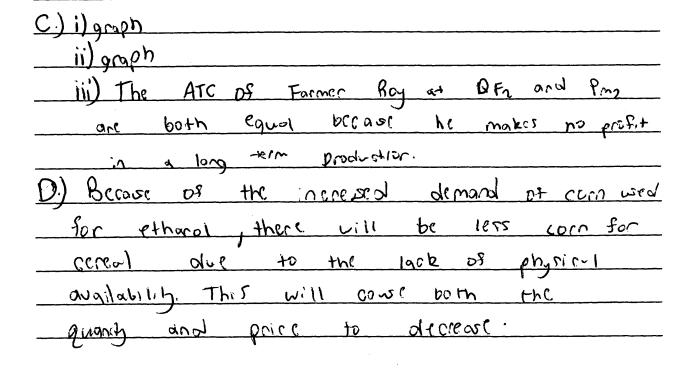
(d) 1 point:

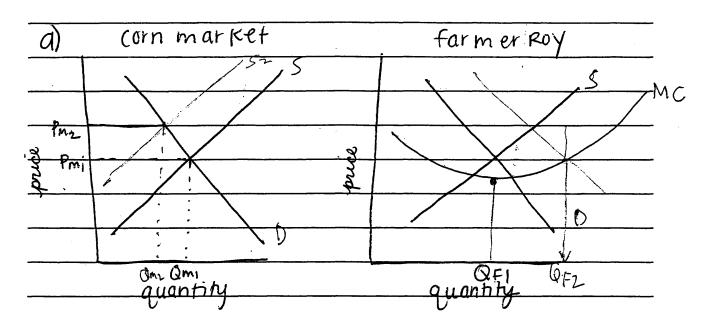
 One point is earned for stating that the equilibrium quantity will decrease and the equilibrium price will increase, because the increase in the price of corn causes a decrease in the supply of cereal.











b) Farmer Roy's corn is perfectly elastic.

Since he is making NO profit, there must some type of substitute good that consumers ean turn to, in order to cause him to not make a profit.

d) With an increased demand for ethanol,
the quantity of corn all ofted to the cereal
firm is decreased. But this would increase
the price. Cereal firms now have
to pay more in order to make their
good since all of the corn is going
to the ethanol firms.

AP® MICROECONOMICS 2010 SCORING COMMENTARY

Question 1

Overview

This question tested students' ability to draw and work with a model of perfect competition. Part (a) asked students to draw the graphs for a competitive market and a representative firm. Part (b) assessed students' understanding of the elasticity of demand for a competitive firm. Part (c) asked students to follow the repercussions of an increase in demand. Part (d) tested for an understanding of how product markets with common inputs affect each other.

Sample: 1A Score: 10

The student answered all parts correctly and so earned all 10 points.

Sample: 1B Score: 6

The student lost 1 point in part (b) for stating that the firm's demand curve "is relatively elastic." The student lost 2 points in part (c) for showing O_{F2} incorrectly and for stating that the average total cost and price are equal when the firm's output is O_{F2} . In part (d) the student incorrectly states that equilibrium price decreases and so lost 1 point.

Sample: 1C Score: 1

The student earned 1 point in part (a)(i) for correctly drawing and labeling the market diagram for corn.