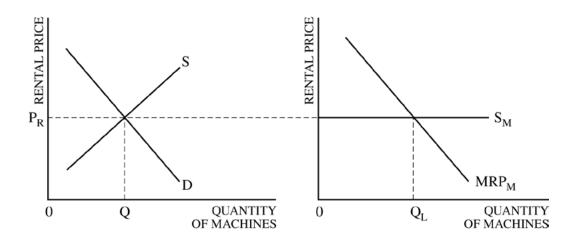
AP® MICROECONOMICS 2010 SCORING GUIDELINES

Question 2

5 points (2+2+1)



(a) 2 points:

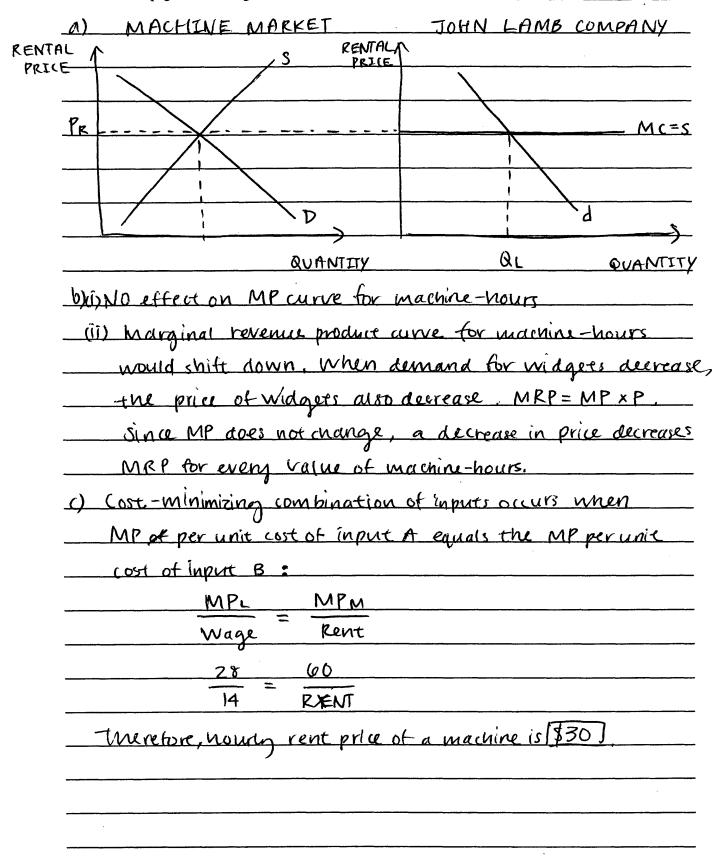
- One point is earned for the correct side-by-side graphs with a horizontal machine supply curve for John Lamb (S, D, P_R , S_M).
- One point is earned for showing the equilibrium rental quantity of machines, Q_L, at the intersection of MRP and the horizontal supply curve.

(b) 2 points:

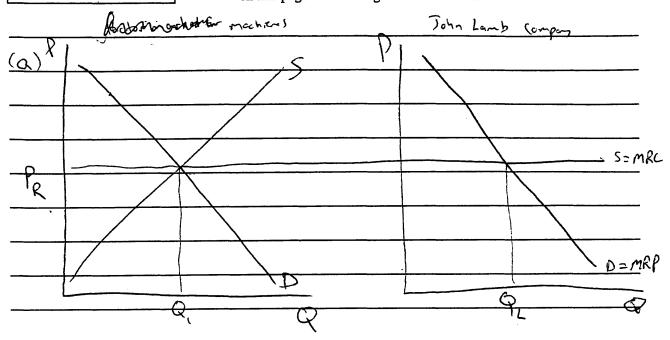
- One point is earned for stating that there will be no change to the marginal product curve for machine-hours.
- One point is earned for explaining that the MRP curve for machine-hours will decrease (shift to the left) because the decrease in demand decreases the price of widgets.

(c) 1 point:

• One point is earned for correctly calculating the rental price of a machine: $MP_L/w = MP_K/r = 28/14 = 60/r$. Therefore, r = \$30.



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



b/1. move to the left													
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AP® MICROECONOMICS 2010 SCORING COMMENTARY

Question 2

Overview

This question assessed students' proficiency with a factor-market model. Part (a) asked students to draw the graphs for a factor market and a representative buyer. Part (b) tested for familiarity with the concepts of marginal product and marginal revenue product. Part (c) assessed students' understanding of the conditions for the cost-minimizing combination of inputs.

Sample: 2A Score: 5

The student answered all parts correctly and so earned all 5 points.

Sample: 2B Score: 3

The student lost 1 point in part (b)(i) for incorrectly stating that the marginal product moves "to the left." The student lost 1 point in part (b)(ii) for the incorrect explanation of why the marginal revenue product (MRP) decreases.

Sample: 2C Score: 1

The student earned 1 point in part (c) for correctly calculating the hourly rental price of the machine.