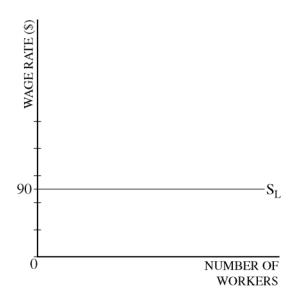
AP® MICROECONOMICS 2007 SCORING GUIDELINES

Question 2

6 points (1 + 2 + 3)



(a) 1 point:

• One point is earned for correctly labeled axes with a horizontal labor supply curve at \$90

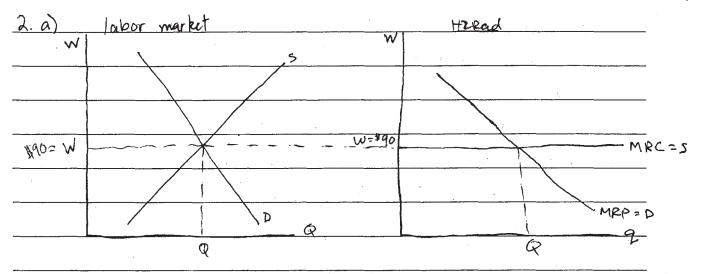
(b) 2 points:

- One point is earned for identifying the profit-maximizing output as 75, or between 75 and 79.
- One point is earned for stating that MRP is greater than \$90 for the fifth worker, but less than \$90 for the sixth worker.

(c) 3 points:

- One point is earned for stating that the quantity of labor HZRad hires increases.
- One point is earned for the explanation that the marginal product of labor increases at each input level, or the marginal product of labor curve shifts to the right, or the demand curve for labor shifts to the right.
- One point is earned for stating that the wage rate will remain constant.

Write in the box the number of the question you are answering on this page as it is designated in the exam. Question 2 2A



2.6) HZRad will hire workers what as long as MRP = MRC.					
Number Workers	@ Rudios (perday	TR 1	MRP		
G	6	0			
	20	400	400		
2	45	900	500		
3	60	1200	300		
4	70	1400	700		
5	75	1500	100		
6	79	1580	80		

TR = out put x \$20 (revenue)

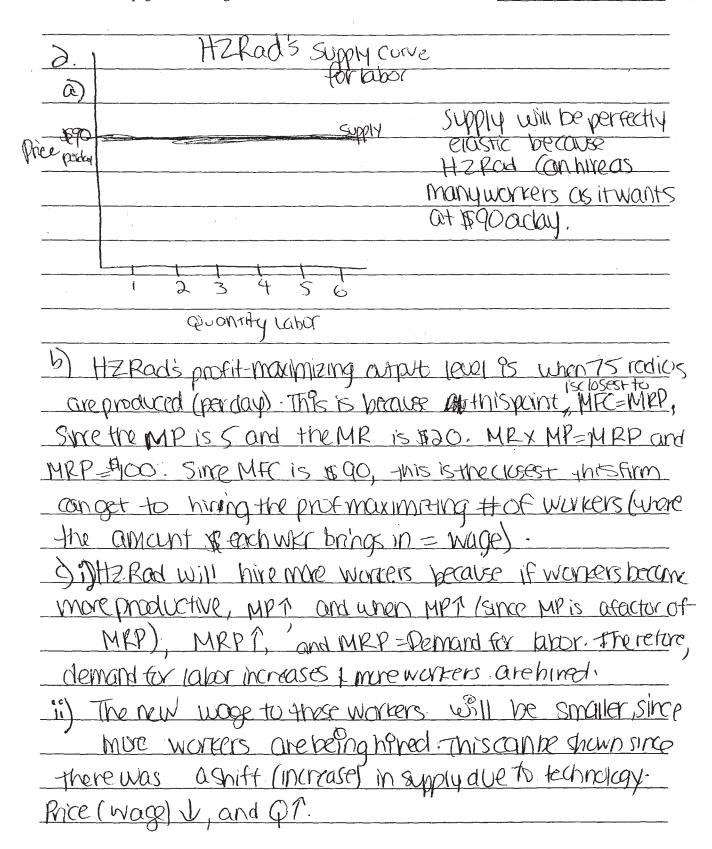
MRP= ATR/AH workers

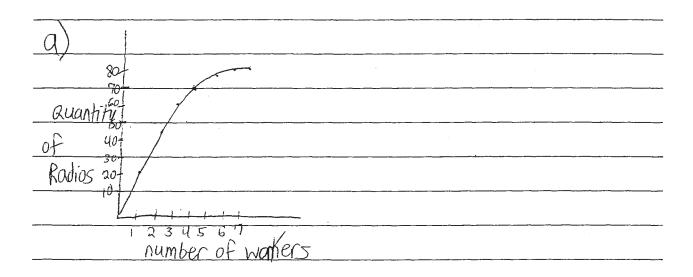
The MRC of workers is \$90. Therefore HZRad will
hive 5 workers b/c \$100>90 and \$80290.
They will produce 75 radios at this level.

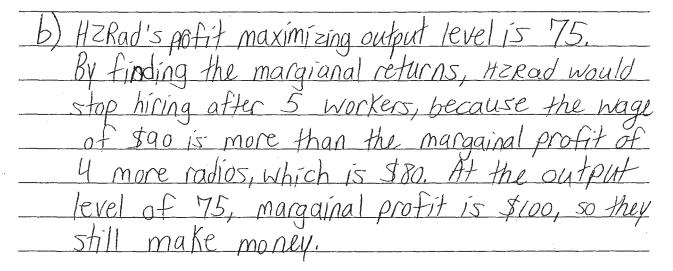
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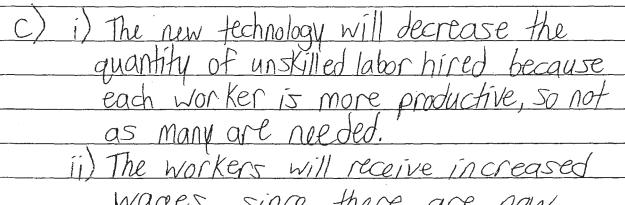
Write in the box the number of the question you are answering on this page as it is designated in the exam.

a) 1 productivity => 1 MP => 1 MRP (which is MR:MP) => 1 D				
for workers => 1 q				
i. They will hire more workers (see above logic).				
ii. Since HZRad is the only firm that is effected by the				
new technology, there will be no supply or demand shifts				
in the labor market. HZRad is a wage-taker and the				
wage didn't change, so HZRad does not change its				
wages paid.				
wages paid.				









less workers hired,

AP® MICROECONOMICS 2007 SCORING COMMENTARY

Question 2

Overview

The intent of the question was to evaluate students' understanding of profit-maximizing labor usage by a firm.

Sample: 2A Score: 6

The student earned all points in this question.

Sample: 2B Score: 4

The student lost 1 point in part (b) for failing to show that the sixth unit of labor hired will reduce profits. In part (c)(ii) the student lost 1 point for incorrectly concluding that the rightward shift in the demand for labor will cause the wage rate to fall, even though the labor supply curve is horizontal.

Sample: 2C Score: 2

The student earned 2 points in part (b) for a correct conclusion and an adequate explanation.