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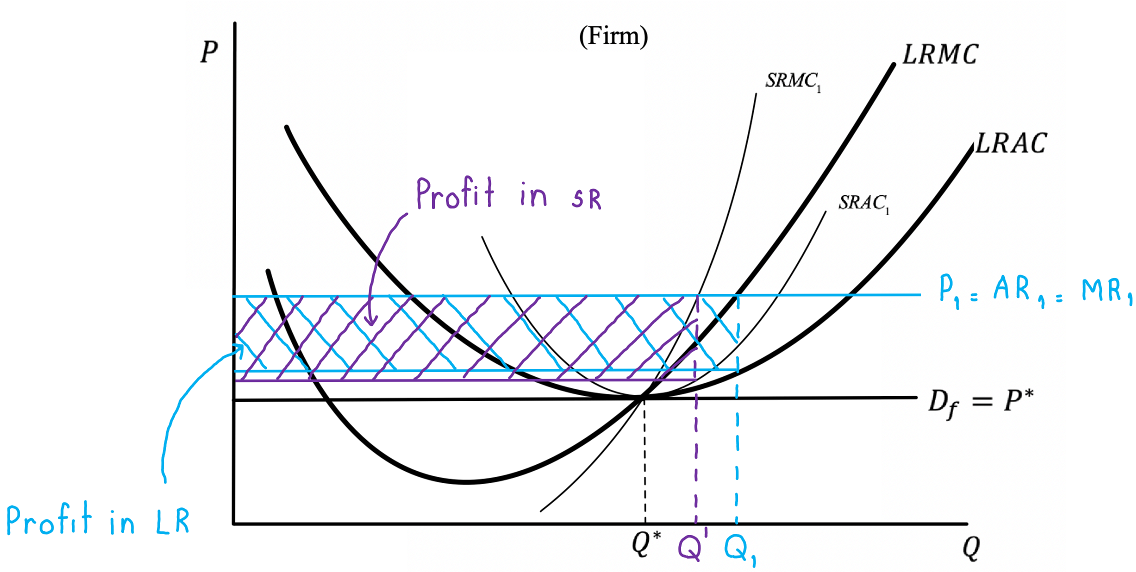
HW#13 Due May 13, 2021

Suppose that the market is in a Long-Run equilibrium where the price is at P^* and each firm produces Q^*. With the given $SRMC_1$ and $SRAC_1$ and $LRMC$ and $LRAC$, the market price increases from P^* to P_1,

a) Show how the firm will change its output in Short Run and Long Run.

b) Indicate the profit the firm receives in Short Run and Long Run.

c) Explain why the profit in Long Run is bigger than profit in Short Run.



a) In short run, the firm will increase its output from Q^* to Q'.
In long run, the firm will increase its output from Q^* to Q_1

c) At Q', LR profit > SR profit because LRAC is lower than SRAC.
So long run profit is maximized at Q_1 where

1 $MR(Q_1) = MC(Q_1)$

2 slope $MR(Q_1)$ < slope $LRMC(Q_1)$

LR profit at Q_1 > LR profit at Q' > SR profit at Q'.

or because in short run there is fixed cost while in long run not.