10.55 pt. 2 - FIRM COSTS

10.55 pt. 2- Demonstrate an understanding of different types of cost and their relationship to one another. By: Carter Greene

<u>KICKOFF:</u>



- Go to Google Classroom and complete the assignment "12/5- KO"
- Pick up both handouts on the way in
- The one labeled Shifts in Cost Curves will be used to answer the KO questions
- Roll Call: Best Jersey in sports?





ANNOUNCEMENTS:

- ✤ 12/9- Quiz
 - Will talk about the quiz at the end of class
- ✤ Homeroom this week
 - > Knight Time next week
 - > Will be having KT for Micro

PRODUCTION FUNCTION AND COST PRACTICE SHEET - 30 MINUTES

- Finish the Production Function and Cost
 Practice sheet from yesterday
- May continue to work with people around you
 - Combine and collaborate, not divide and conquer
- If you finish early begin working on the alphabet soup sheet

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KEY POINTS TO COST CURVES

- MC, ATC and AVC start decreasing and then increase
 - > U-shaped
- ✤ AFC is always decreasing
- ✤ ATC is always above AVC and AFC
- MC always intersects AVC and ATC at their minimum points
- Distance between ATC and AVC is always equal to AFC



<u>COST CURVE SHIFTS</u>

<u>INCREASE IN PRICE OF VARIABLE INPUT</u>

♦ Curves to shift:
> ATC, AVC and MC
♦ Direction of shift:
> Up

 Shape stays the same
 Ex: (minimum) Wage increase, <u>excise tax</u>, cost of dough for pizza parlor, etc.



DECREASE IN PRICE OF VARIABLE INPUT

- ✤ Curves to shift:
 ➢ ATC, AVC and MC
 ✤ Direction of shift:
 ➢ Down
 - > Down
- Shape stays the same.
- Ex: (minimum) Wage decrease, <u>excise tax</u>, cost of dough for pizza parlor, etc.



<u>INCREASE IN PRICE OF FIXED INPUT</u>

✤ Curves to shift:
➢ ATC and AFC
♦ Direction of

Shift:

- ≻ Up
- Shape stays the same
- Ex: <u>Lump Sum Tax</u>, Rent goes up, etc.



<u>Alphabet Soup</u>

- Tons of Acronyms and weird variables/symbols in economics
- Use this sheet to record what they stand for, their definition, and their formula(s)
- This should provide you with a great study device that will provide you with the tools you'll need to combine with critical thinking skills to be successful in this unit.



PARTNER MULTIPLE

<u>CHOICE PRACTICE</u>

1) A firm is producing 100 units of output at a total cost of \$400. The firm's average variable cost is \$3 per unit. What is the firm's total fixed cost? a) \$1 b) \$50 c) \$100 d) \$300 \$400

e)

The graph above shows the 1) cost curves for a competitive firm that produces 20 units of output. What are the total cost and the total fixed cost of producing 20 units of output? a) TC = \$10; TFC = \$0 b) TC = \$120; TFC = \$100c) TC = \$120; TFC = \$20 TC = \$200; TFC = \$100d) TC = \$200; TFC = \$20e)



1) Assume that total fixed costs are \$46, that the average product of labor is 5 units when 10 units of output are produced, and that the wage rate is \$12. If labor is the only variable input, what is the average total cost of producing 10 units of output?



FREE RESPONSE REVIEW QUESTION

Using all the information you've learned the past two classes, complete this FRQ with the person next to you.



✤ Let's look back at the KO from Monday

THERE ARE MORE THAN ONE WAY TO FIND DIFFERENT TYPES OF COST