OUTLINE — September 30, 2019

- Firms' Supply Decisions, continued
 - Costs of Production (this is where we ended 9/19)
 - Perfect Competition
 - Produce q where MR=MC to maximize profit
 - Calculating Profit
 - If planning to exit in LR, Shut down or Produce in SR?
 - Supply curve is sum of MC curves above minimum AVC
- Profit = 0 in the Long Run in Perfect Competition

Midterm #1: Wed 10/2 7 pm. Read the old midterms yet?

Costs: Marginal & Average

- ATC =
- MC =
- Marginal > Average?
- Marginal < Average?</p>

Profit SR & LR Diminishing Marginal Returns Costs Industry Type Profit max rule

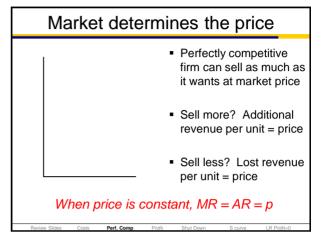
Marginal & Average Cost Curves		
1		

Type of industry?

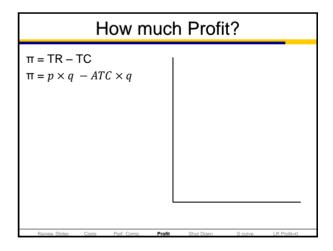
- Until now, it doesn't matter
- Assume
 - PERFECTLY COMPETITIVE Industry
 - 1) Lots of firms
 - 2) Homogeneous product
 - 3) No barriers to entry or exit

Review Slidge Crete Part Comp. Profit Shut-Down Scurup IR Profit—0

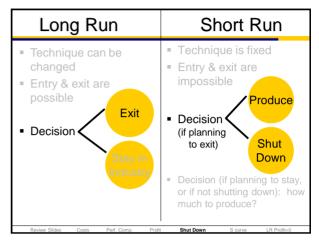
Perfectly Competitive Industry				
 Key idea: Each firm faces a horizontal demand curve at the market equilibrium price 				
Market	Firm			
	L			
Review Slides Costs Perf. Comp.	Profit Shut Down S curve	LR Profit=0		



Profit Max: choose q where MR≡MC		
■ If MR > MC,		
■ If MR < MC,		
■ If MR = MC,		
■ RULE: To maximize profit, produce q so that MR = MC		
Review Slides Costs Perf. Comp. Pro	fit Shut Down S curve LR Profit=0	







Shutdown Point

Each month, a profit-maximizing business has

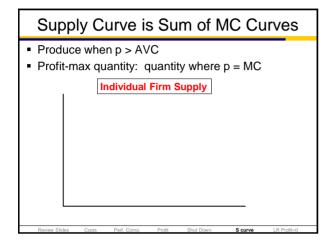
- TR = \$70,000
- Total Economic costs = \$105.000
 - TFC = \$75,000
 - TVC = \$30,000

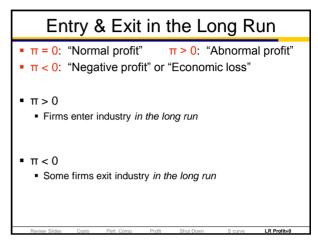
What should this business do in the long run? In the short run?

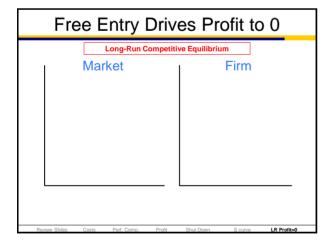
Review Slides Costs Perf. Comp. Profit Shut Down S curve LR Profit=0

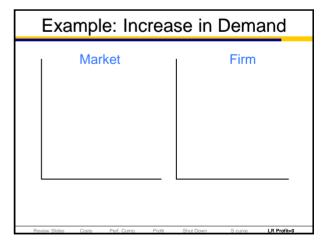
Shutdown Point

- Relevant decision only if incurring economic loss
- If revenue > variable costs, then produce
 - Firm is covering all its variable costs, and more
- If revenue < variable costs, then immediately shut down
 - Firm loses less by not producing & just paying fixed costs









Typical firm earning profit?

- Abnormal profit?
- More firms will enter industry
 - Result?
 - · Prices fall
 - · Total quantity sold increases
 - · Existing firms produce less than before
 - New firms produce more than 0

Review Slides Costs Perf Comp. Profit Shut Down S curve LR Profit=0

Increase in demand

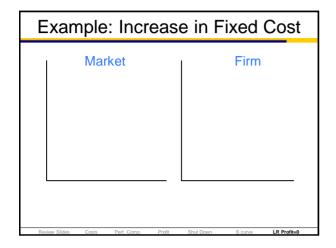
- Short run
 - Price rises
 - Existing firms produce more
 - Profit > 0
- Long run
 - Firms enter
 - Price returns to p₁
 - Market quantity increases
 - · Existing firms cut production back to q1
 - New firms produce q > 0
 - Profit = 0

Review Slides Costs Perf. Comp. Profit Shut Down S curve LR Profit=0

Market Firm

Increase in variable cost

- Short run
 - MC rises (shifting market supply) and ATC rises
 - Price rises to p₂
 - Existing firms produce less
 - Profit < 0
- Long run
 - Firms exit
 - Price rises to fully cover additional costs, to p₃
 - Market quantity decreases
 - · Remaining firms return production to q₁
 - · Fewer firms produce
 - Profit = 0



Increase in fixed cost ■ Short run ■ Only ATC rises ■ No change in MC so no change in market supply ■ Price unchanged but ATC higher ■ Profit < 0 ■ Long run ■ Firms exit ■ Price rises to fully cover additional costs, to p₂ ■ Market quantity decreases ■ Remaining firms producing q₂ ■ Fewer firms produce ■ Profit = 0