OUTLINE — September 17, 2018

- Taxes and Deadweight Loss, continued
- Elasticity
 - Total Revenue Effect
 - Effect on Consumer Surplus
 - Effect on Burden of a Tax
- Accounting versus Economic Profit (maybe)

Midterm #1: Thurs 9/27, 8 pm. Read the old midterms yet? Piazza!! Office Hours!!! SLC & Dept Tutors!!

Extra handouts: in racks outside 532 Evans

Effect of a Tax Increase Sales or excise tax Taxes & Deadweight Loss Elasticity Applications of Elasticity Profit

Elasticity of A with respect to B How much does A change when B changes?

Elasticity

■ elasticity = percent change of A percent change of B

Tayor & Doodwaight Lore Classicity Applications of Electricity Profit

Demand & Supply Elasticities

- How much does q_D change due to . . .
 - . . . a change in buyer income?
 - . . . a change in price?
 - . . . a change in other prices?
- How much does q_S change due to . . .
 - . . . a change in price?

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Income Elasticity of Demand

- Remember:
 - Normal Goods
 - Inferior Goods
- Question:
 - By how much does q_D change when Y changes?
- Answer
 - Income Elasticity of Demand

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Examples: Income Elasticity

%Δ Y = - 1 %

 $%\Delta q_{D} = -5 \%$

%Δ Y = +2 %

 $%\Delta q_{D} = -1 %$

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Terminology

- Perfectly Inelastic:
- (Relatively) Inelastic:
- Unitarily Elastic:
- (Relatively) Elastic:
- Perfectly Elastic:

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Price Elasticity of Demand

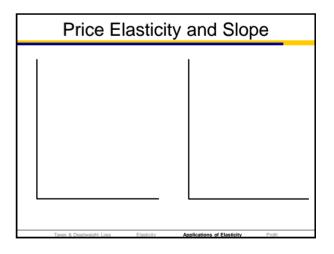
- Remember:
 - Demand <u>ALWAYS</u> slopes down
- Question
 - By how much does q_D change when p changes?
- Answer:
 - Price Elasticity of Demand

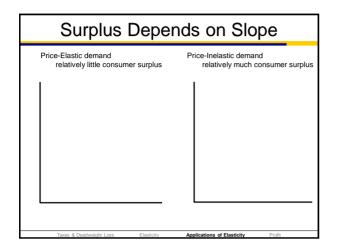
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Examples: Pri	ice Ela	sticity of D	emand
%Δ p = -10 %			
$%\Delta q_D = +5 \%$			
%∆ p = +2 %			
$%\Delta q_D = -4 \%$			
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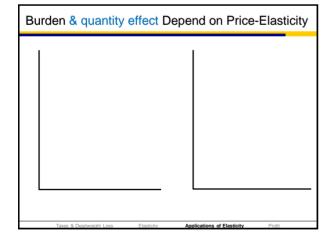
Determinants of Price I	Elasticity of Demand	
 Availability of Substitutes 		
 Share of Total Spending 		
■ Time Horizon		
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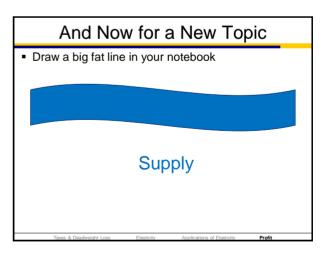
Total Revenue (TR) Effect What happens to total revenue when price rises? TR (total revenue) = price * quantity Price-Elastic Demand Price-Inelastic Demand Demand with Unitary Price Elasticity Taxos & Deadwood* Loss Elasticity Applications of Elasticity

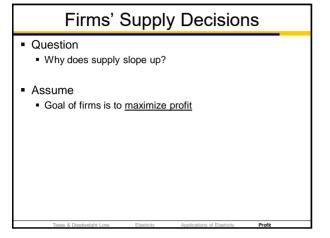


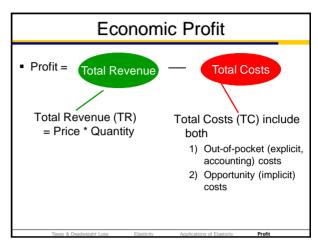


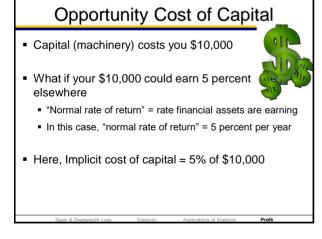
Circle back: Burden of a Tax Tax on an item increases its price But (in the short run) not by the full amount of the tax Who "bears the (greater) burden" of the tax? Definition: Burden = % of tax paid Burden depends upon slopes of S and D That is, upon price-elasticity of supply and price-elasticity of demand













Accounting vs. Economic Profit

- Total annual revenue = \$100,000
- Annual accounting costs = \$60,000
- Your savings tied up in company = \$50,000
- Normal annual rate of return = 10 %
- Working elsewhere, you could earn \$40,000 per year

Accounting Profit =

Economic Profit =

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