

Solution to Three Discrimination Problems



Three Discrimination Problems

- Joe's Barber Shop
- Ethyl's Bar and Grill
- Fred's House of Pancakes

Joe's Barber Shop

- Joe's Barber Shop is located in a quiet Cleveland Suburb. Joe's customers either
 - Work in downtown Cleveland and home mainly on the weekends, or are
 - Residents of Happy Days Retirement Home.

Joe's Barber Shop

	Weekdays	Saturday
Commuters	\$8	\$15
Denizens of Happy Days	\$6	\$6

Joe's Barber Shop

	Weekdays	Saturday
Commuters	\$8	\$15
Denizens of Happy Days	\$6	\$6

What price should Joe charge weekdays? Saturday?

Joe's Barber Shop

	Weekdays	Saturday
Commuters	\$8	\$15
Denizens of Happy Days	\$6	\$6

The most he can get from the Happy Days residents is \$6. Clearly he wants them to come on weekdays, so the weekday price is \$6

I assume Joe must price in quarters. No commuters \$12.99

Joe's Barber Shop

	Weekdays	Saturday
Commuters	\$6\$8	\$12.75\$15
Denizens of Happy Days	\$6\$6	\$12.75\$6

If Commuters come Weekdays, they will get Consumer Surplus of \$2. He must leave them \$2.25 on weekends to get them to shift. Hence \$12.75

Ethyl's Bar and Grill

- Ethyl's Bar and Grill has two types of customers. Their demand functions for drinks are

$$Q = 12 - 2p$$

and

$$Q = 24 - 3p.$$

- While Ethyl cannot tell the two types apart, she can prevent arbitrage.
- Devise a pricing system (MC = 0).

Ethyl's Bar and Grill

The Red Plan

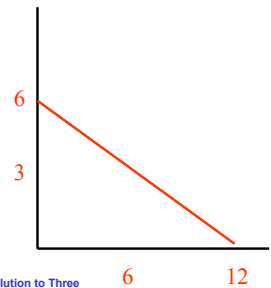
- Membership fee of \$9
- \$3.00 a drink

The Blue Plan

- Membership fee of \$67.49
- Free Drinks

Ethyl's Bar and Grill

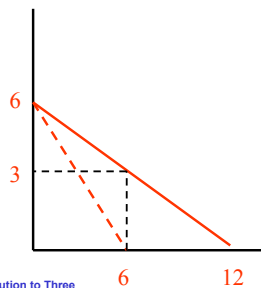
The Red Plan



Ethyl's Bar and Grill

The Red Plan

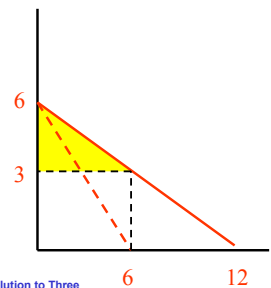
- Profit Maximizing price is \$3



Ethyl's Bar and Grill

The Red Plan

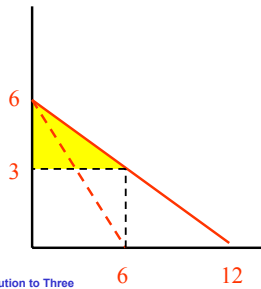
- Profit Maximizing price is \$3
- Consumer Surplus is \$9



Ethyl's Bar and Grill

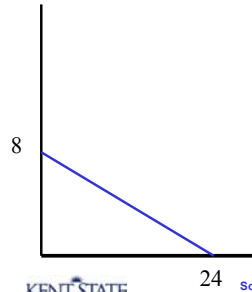
The Red Plan

- Profit Maximizing price is \$3
- Consumer Surplus is \$9
- Get both



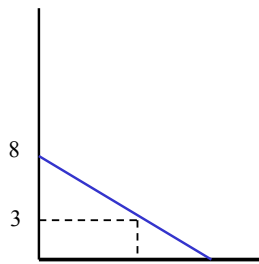
Ethyl's Bar and Grill

The Blue Plan



Ethyl's Bar and Grill

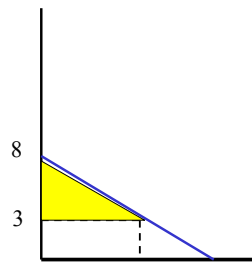
The Blue Plan



Ethyl's Bar and Grill

The Blue Plan

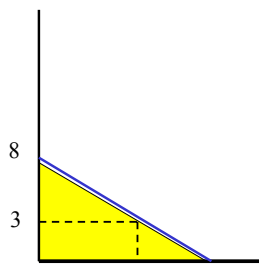
- Using the Red Plan, consumers get CS = \$37.50 - \$9 = \$28.50



Ethyl's Bar and Grill

The Blue Plan

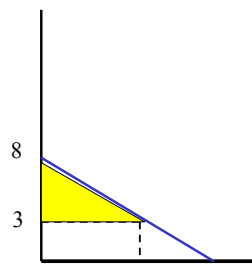
- Using the Red Plan, consumers get CS = \$37.50 - \$9 = \$28.50
- Free drinks means CS = \$96.



Ethyl's Bar and Grill

The Blue Plan

- Using the Red Plan, consumers get CS = \$37.50 - \$9 = \$28.50
- Free drinks means CS = \$96.
- We must leave them \$28.51, so set fee at $\$96 - \$28.51 = \$67.49$



Fred's House of Pancakes

- Fred has pancake houses in Seattle and Youngstown, Ohio. The demand functions for pancakes are

Seattle

$$Q = 100 - 10P$$

Youngstown

$$Q = 80 - 20P$$

Fred's House of Pancakes

- Fred has pancake houses in Seattle and Youngstown, Ohio. The demand functions for pancakes are
- MC = 0.
- What price should Fred charge if the Uniform Pancake Pricing Act (UPPA) becomes law?
- What prices should Fred charge otherwise?

Seattle

$$Q = 100 - 10P$$

Youngstown

$$Q = 80 - 20P$$

Fred's House of Pancakes

UPPA

Seattle

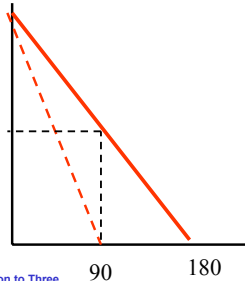
$$Q = 100 - 10P$$

Youngstown

$$Q = 80 - 20P$$

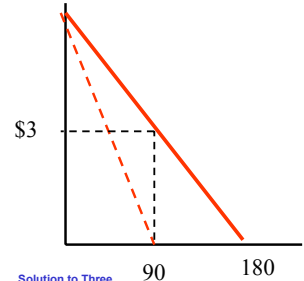
Total

$$Q = 180 - 30P$$

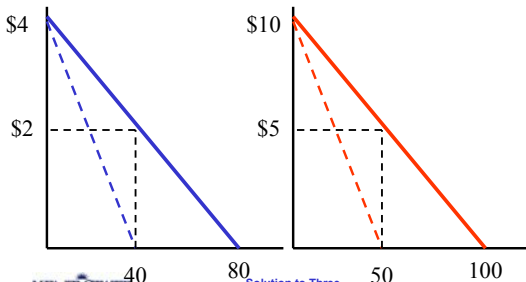


Fred's House of Pancakes

- UPPA**
- Price at \$3



Fred's House of Pancakes



End

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