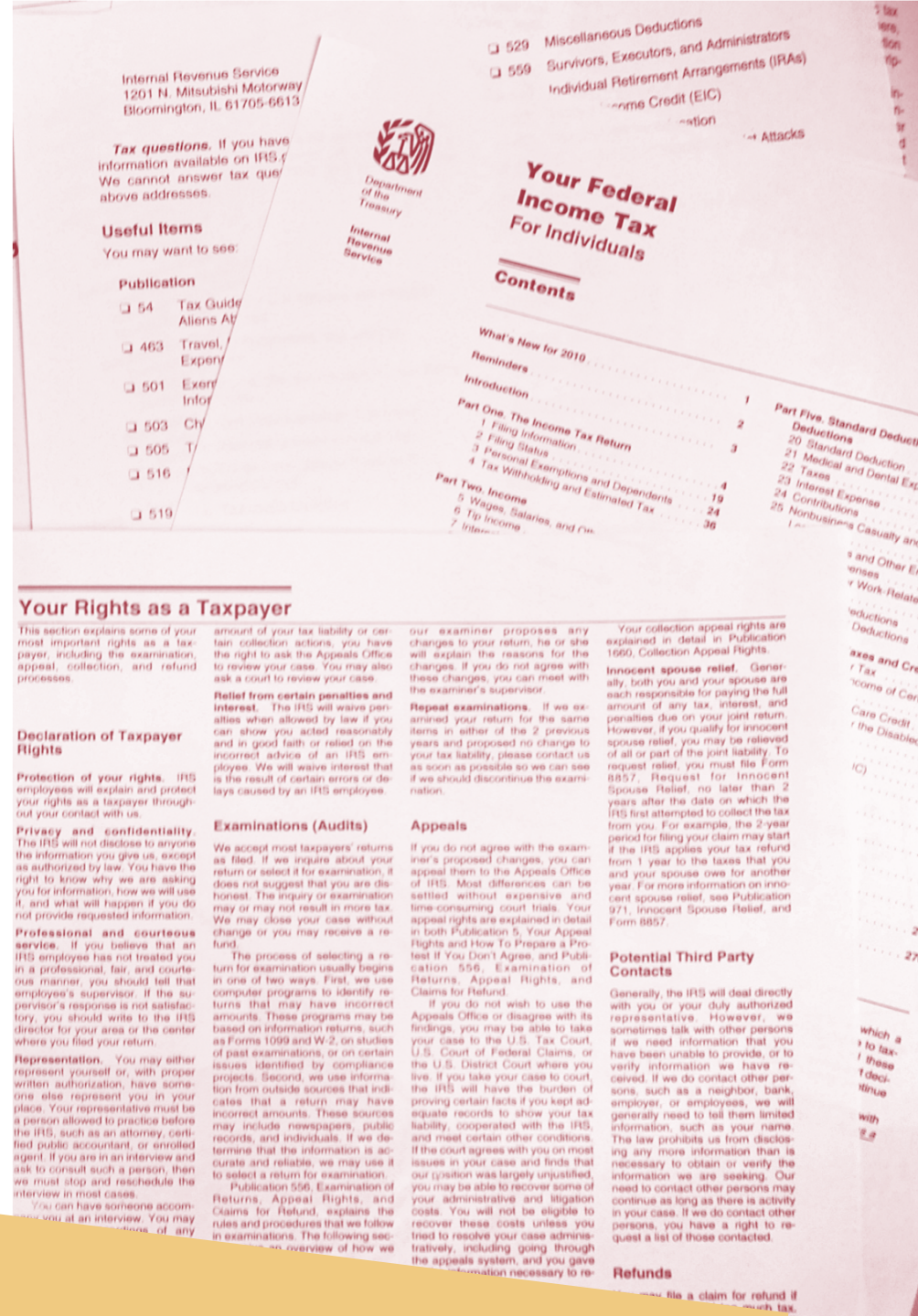


Firms and markets II

MPA 612: Public Management Economics

February 26, 2018

Fill out your reading report on Learning Suite!



Current events

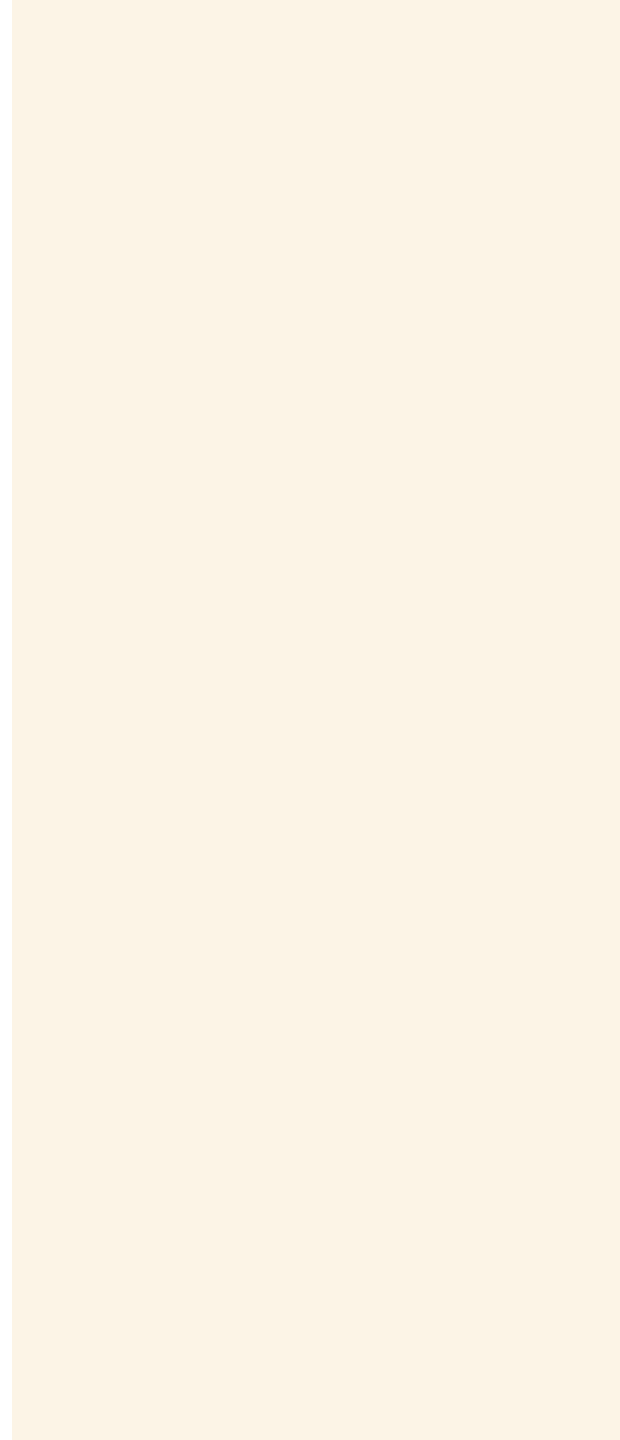
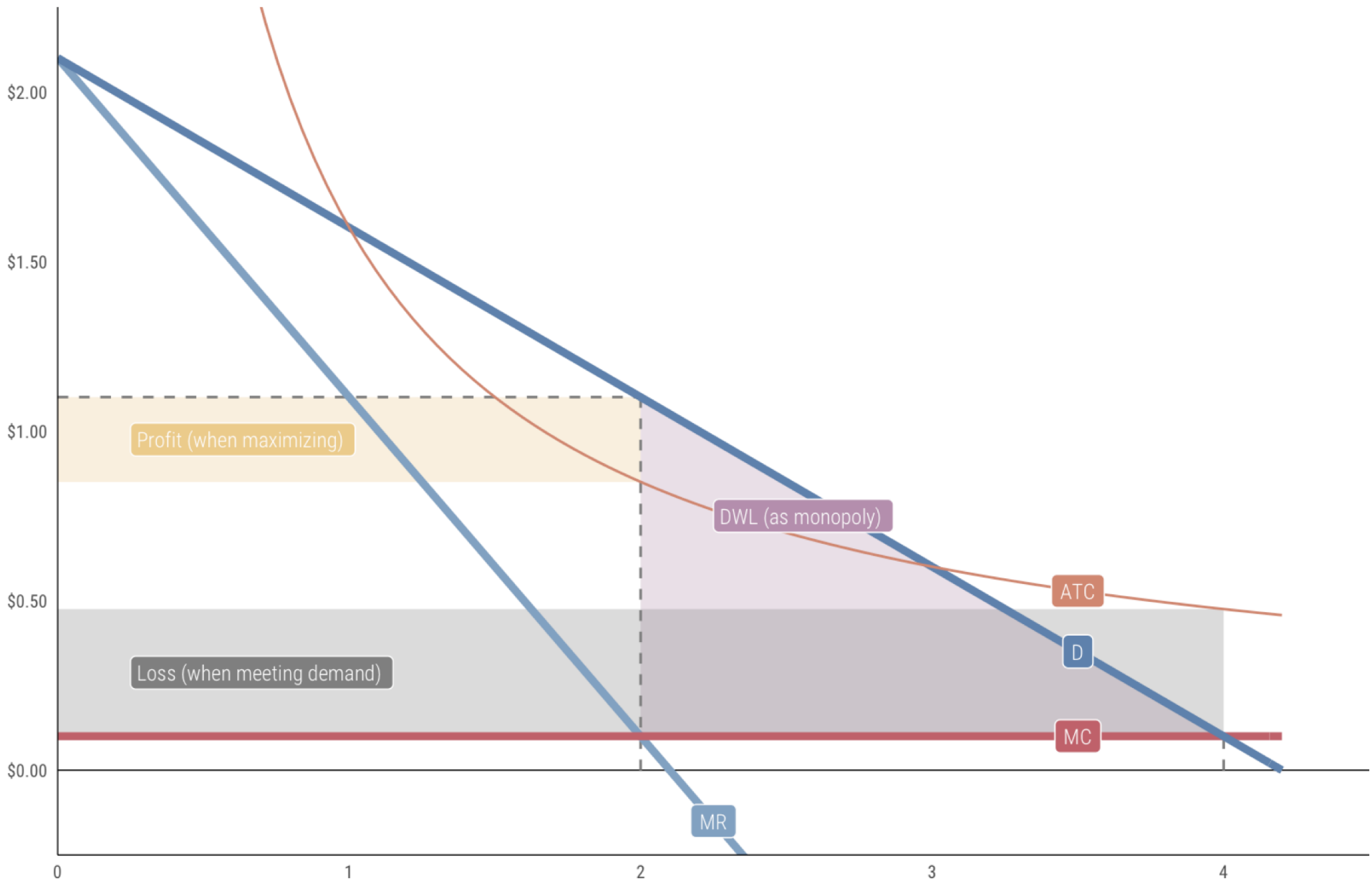
Plan for today

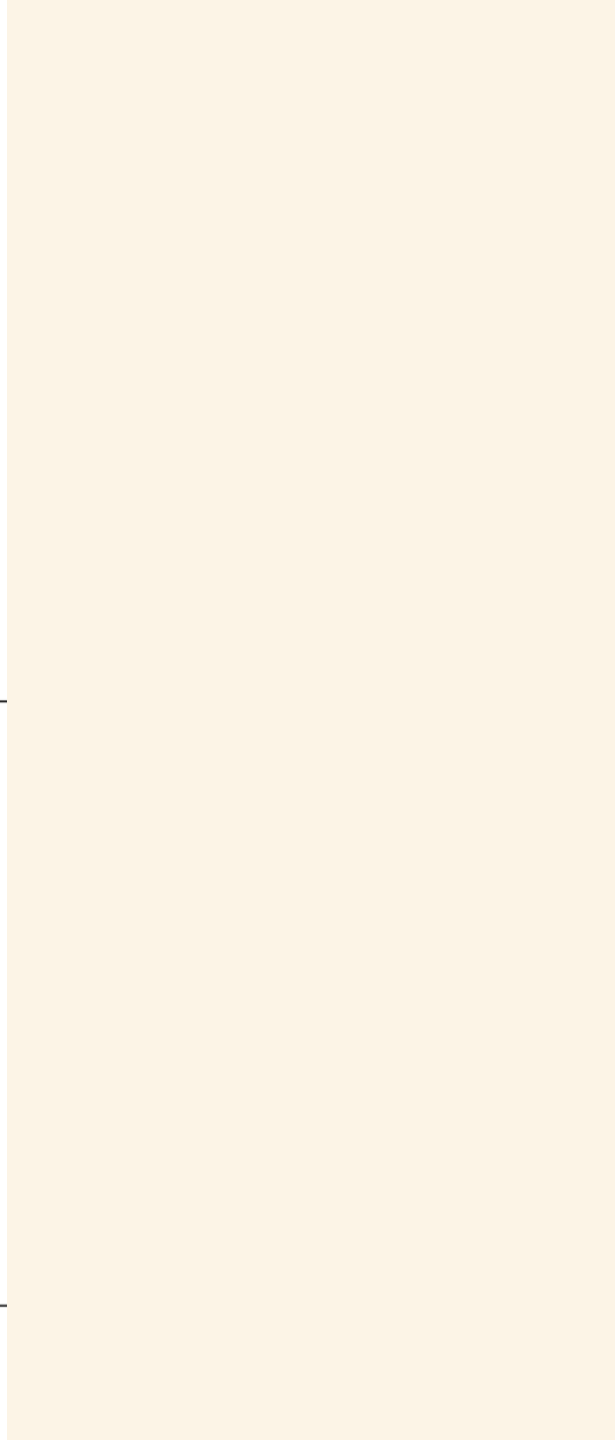
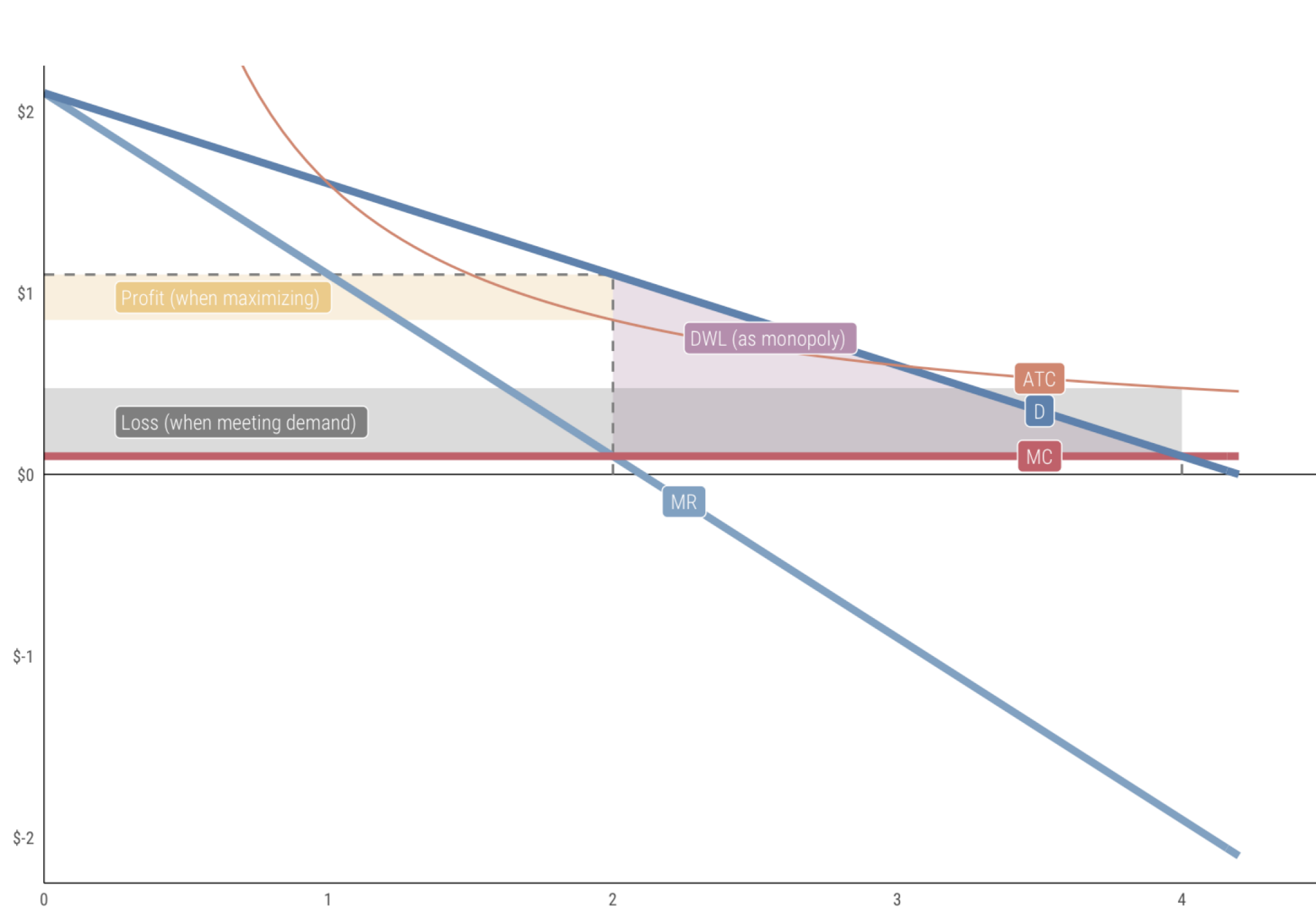
Changes in supply and demand

Consumer and producer surplus

Taxes and distributional issues

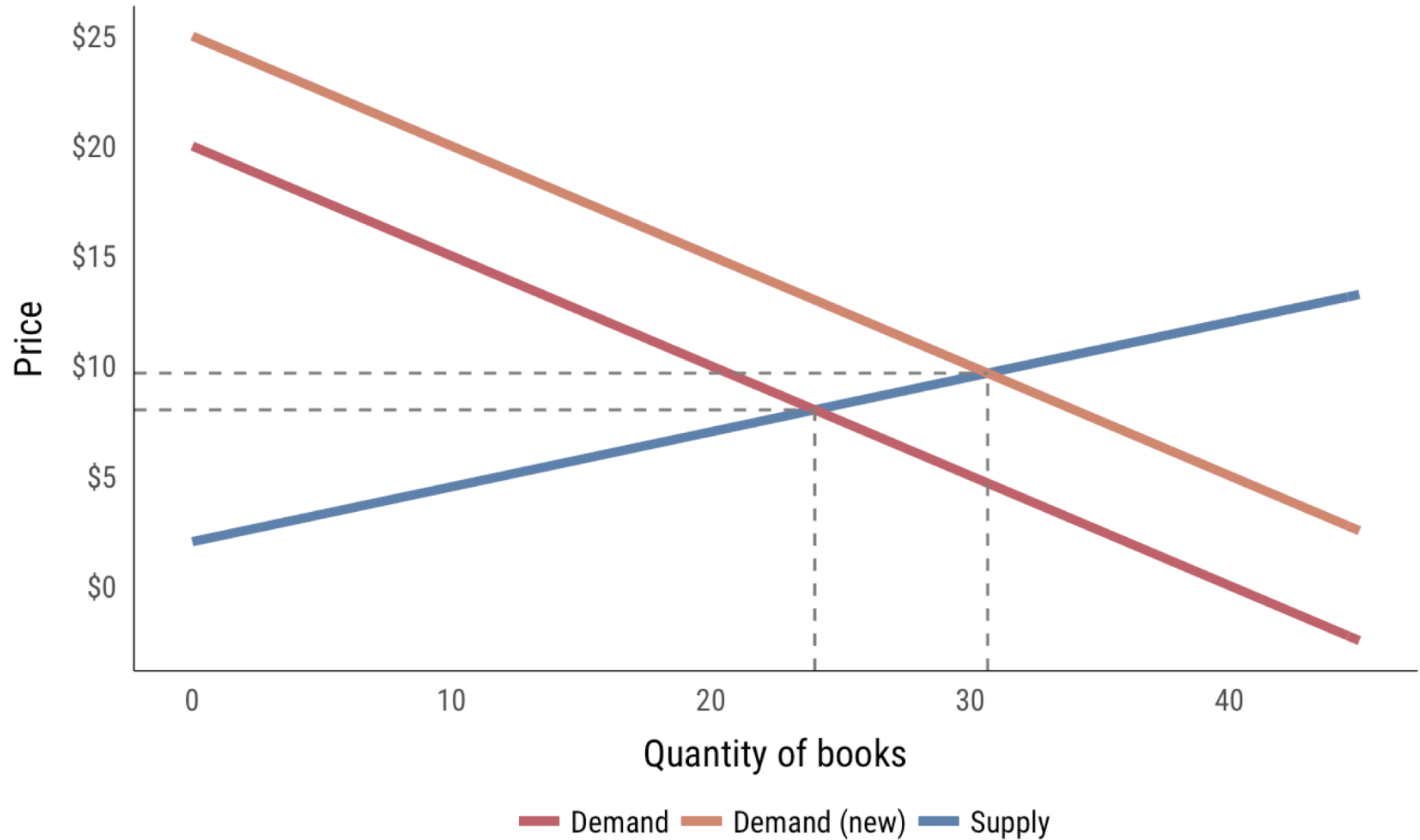
Competition in a price-taking world





Changes in supply and demand

Change in demand



Change in demand

Demand higher at every possible point

Structural change

Price increases; quantity increases
(or decreases/decreases)

Supply remains the same

People start preferring hamburgers over pizza

Change in quantity demanded

Prices and quantity change...

...but not because of structural issues

Movement along demand curve

Supply remains the same

Price of pizza changes

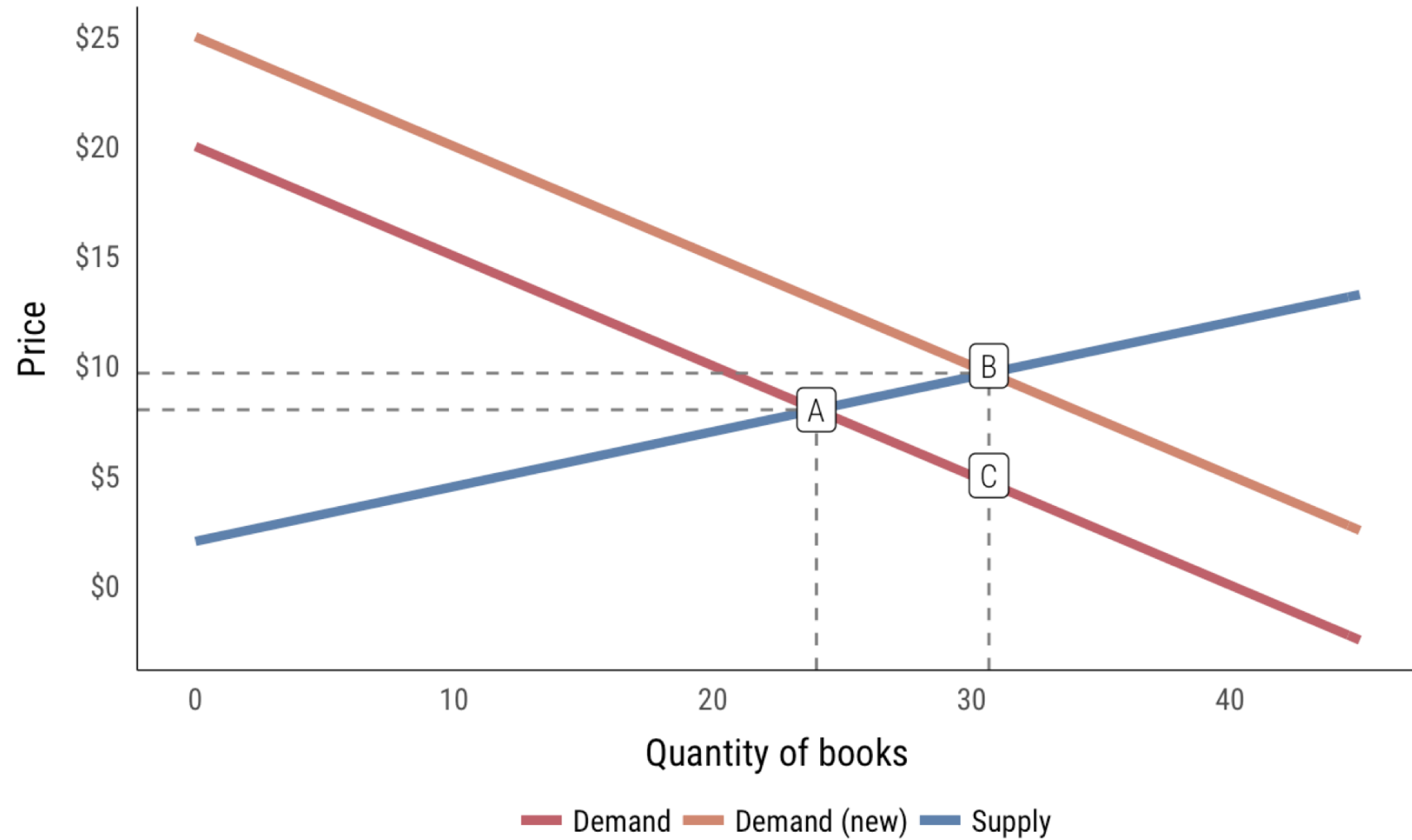
Two ways to get
from 24 to 17ish

A → C

Change in quantity
demanded
Only price changes

A → B

Change in demand
New demand curve



Factors that cause demand to shift

Change in price of
complementary goods

Change in
income

Change in price of
substitute goods

Change in
preferences

Change in population
of buyers

Expectation of
higher prices

c

Orange market

Dr. Oz promotes new fad diet where everyone eats 10 oranges a day

Car market

Consumer income rises

Car market

Gas prices double

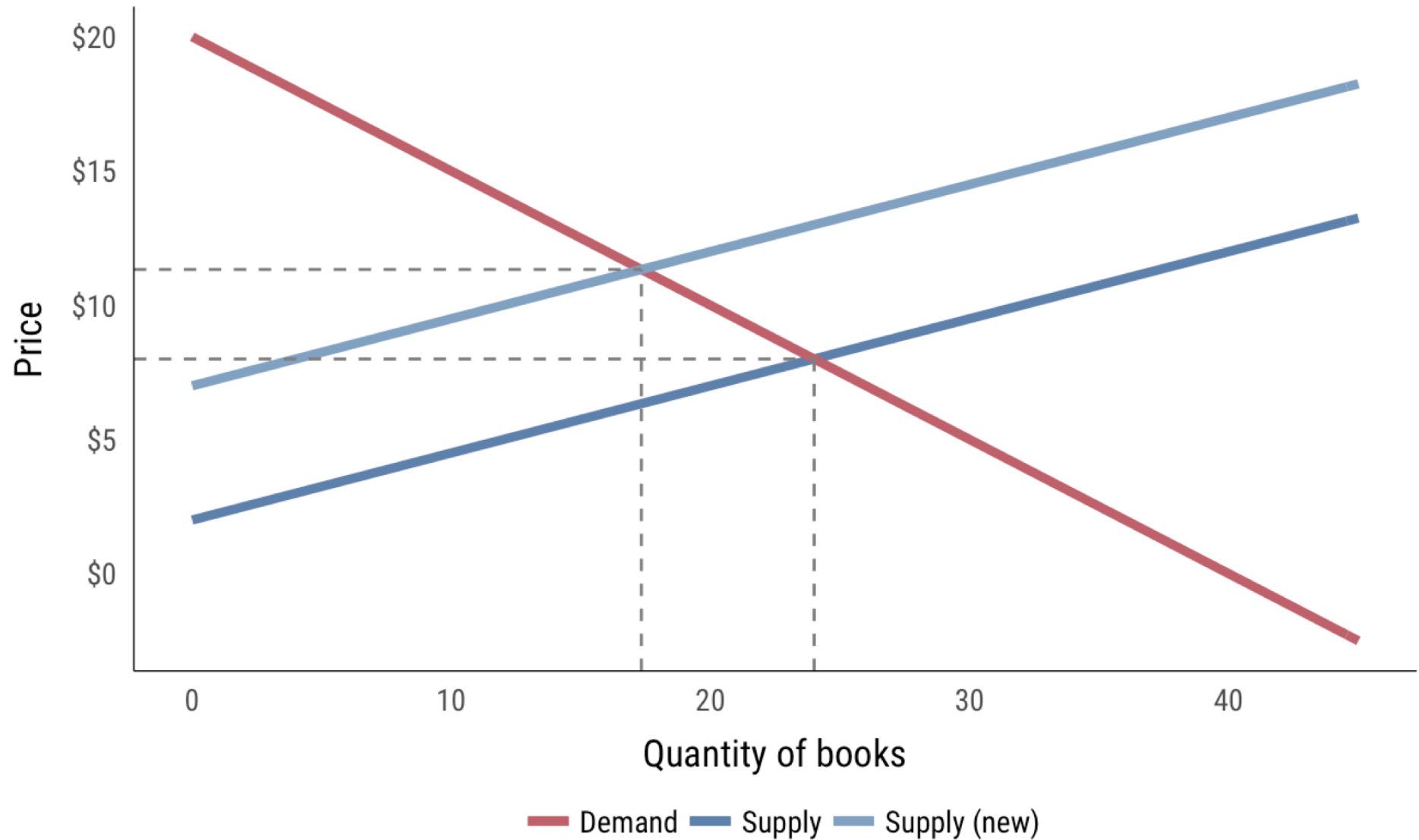
Shoe market

More manufacturers make shoes

Lettuce market

Price drops by 10 cents

Change in supply



c

Change in supply

Supply higher at every possible point

Structural change

Price increases; quantity increases
(or decreases/decreases)

Demand remains the same

Cost of production changes because of technology
or input costs

Change in quantity supplied

Prices and quantity change...

...but not because of structural issues

Movement along supply curve

Demand remains the same

Price of product changes

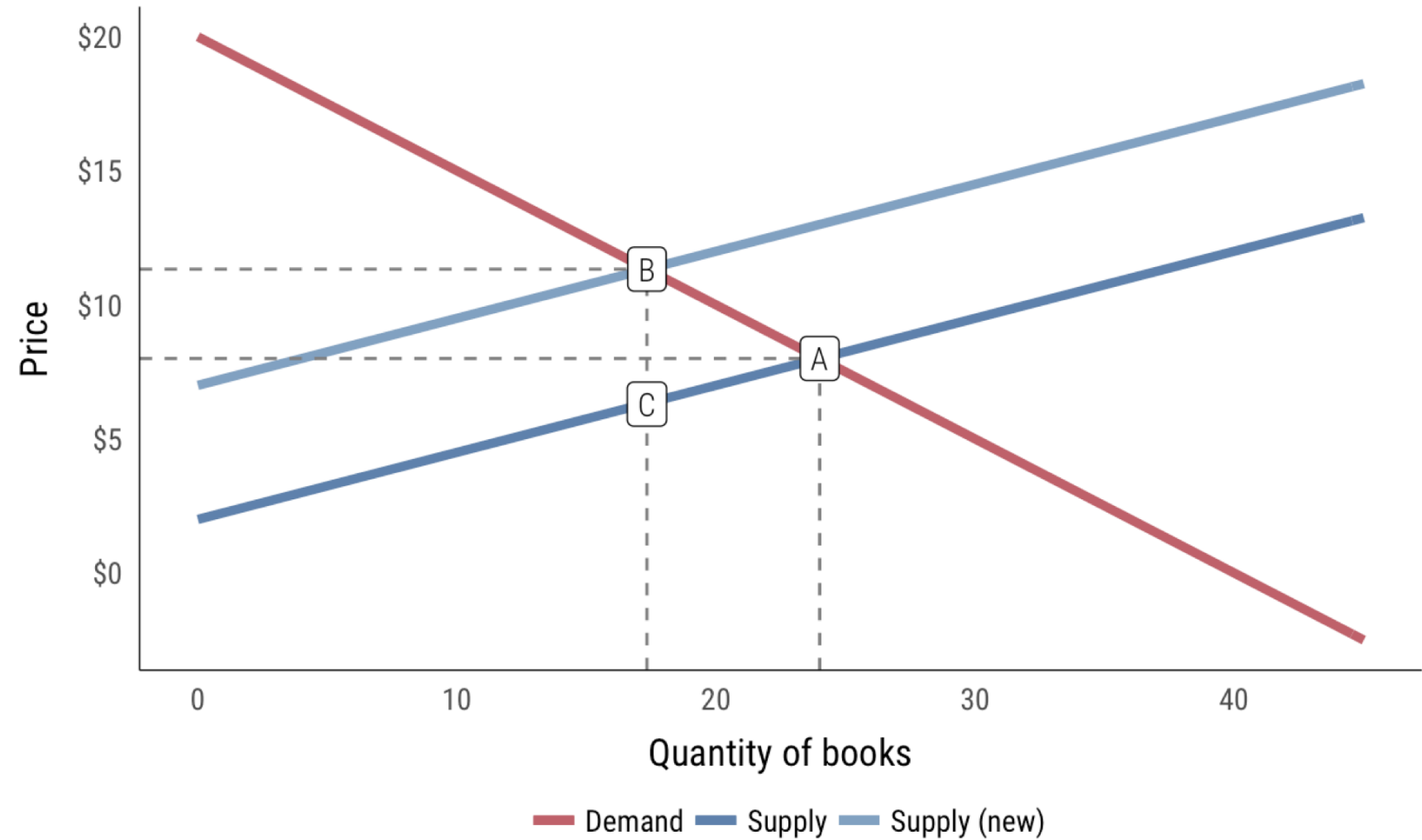
Two ways to get
from 24 to 17ish

A → C

Change in quantity
supplied
Only price changes

A → B

Change in supply
New supply curve



Factors that cause supply to shift

Change in cost of inputs

Change in cost of production

Change in weather

Change in number
of suppliers

Expectation of
lower prices

Car market

New engine design reduces production costs

Orange market

Freeze in Florida kills 50% of the crop

Shoe market

Price of shoes increases

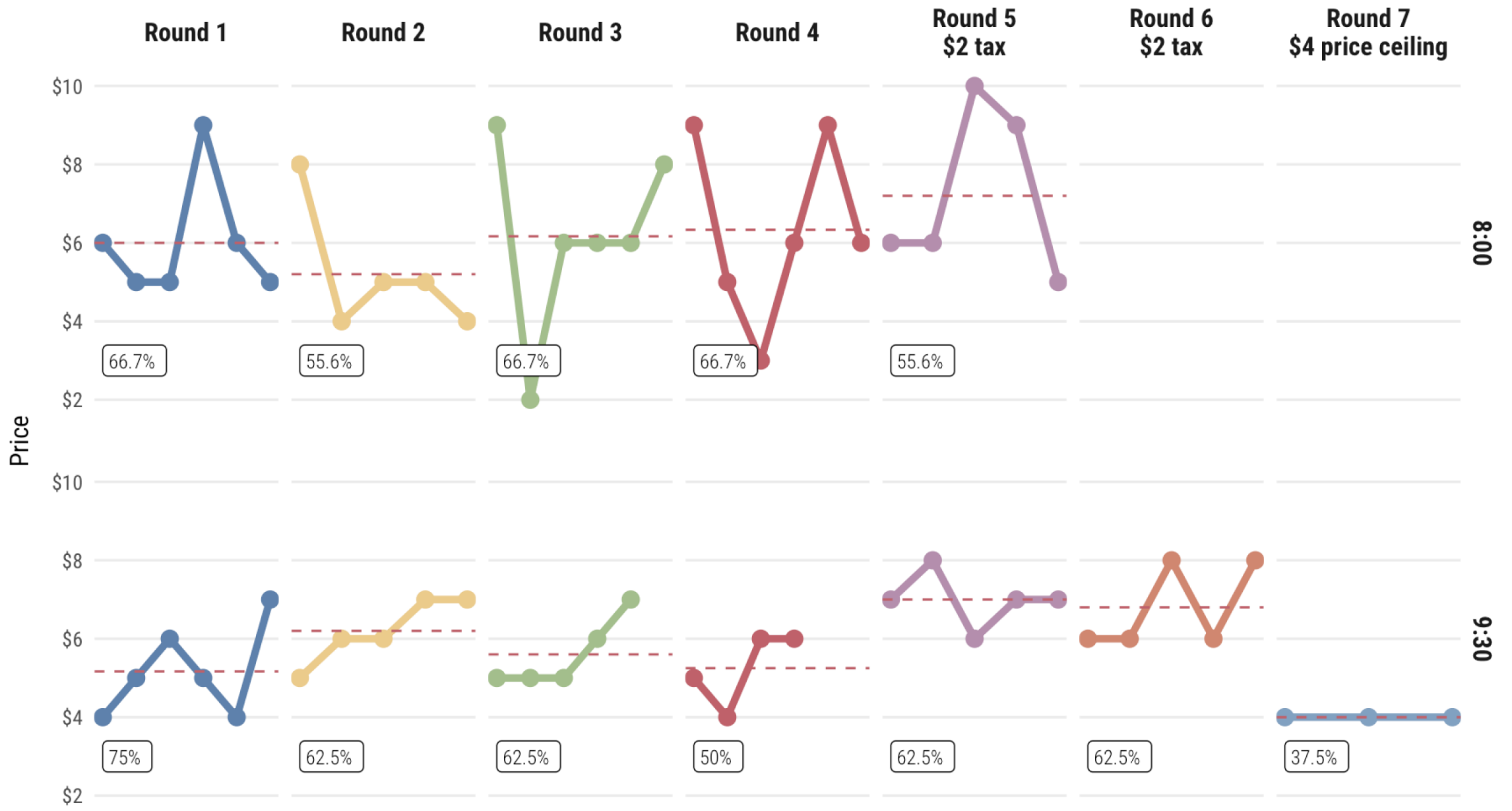
Shoe market

Price of leather increases



Consumer and producer surplus

Coloring in all the lines



Consumer surplus

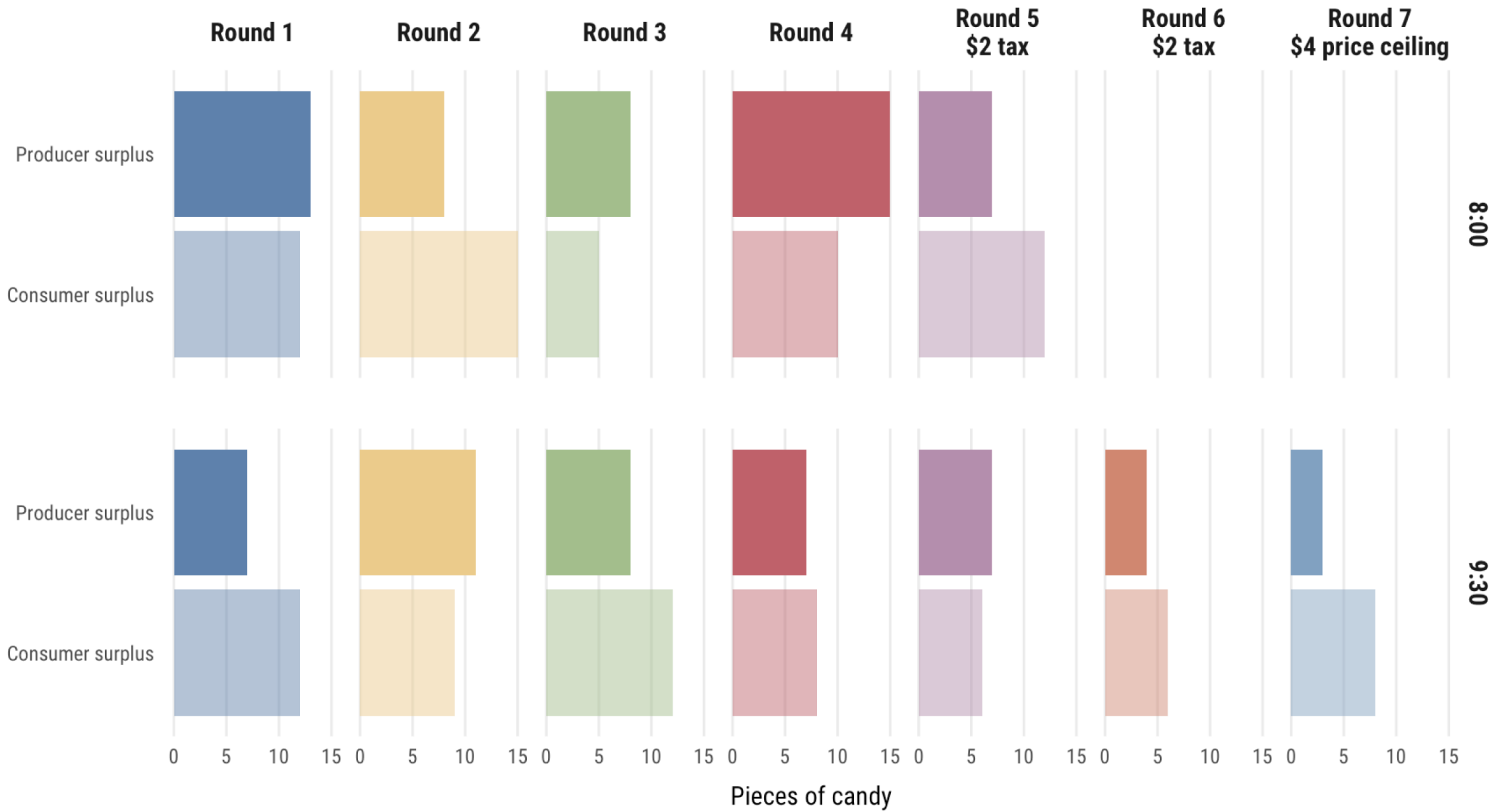
Difference between WTP and price

How good of a deal consumer gets

Producer surplus

Difference between price and WTA

How good of a deal producer gets

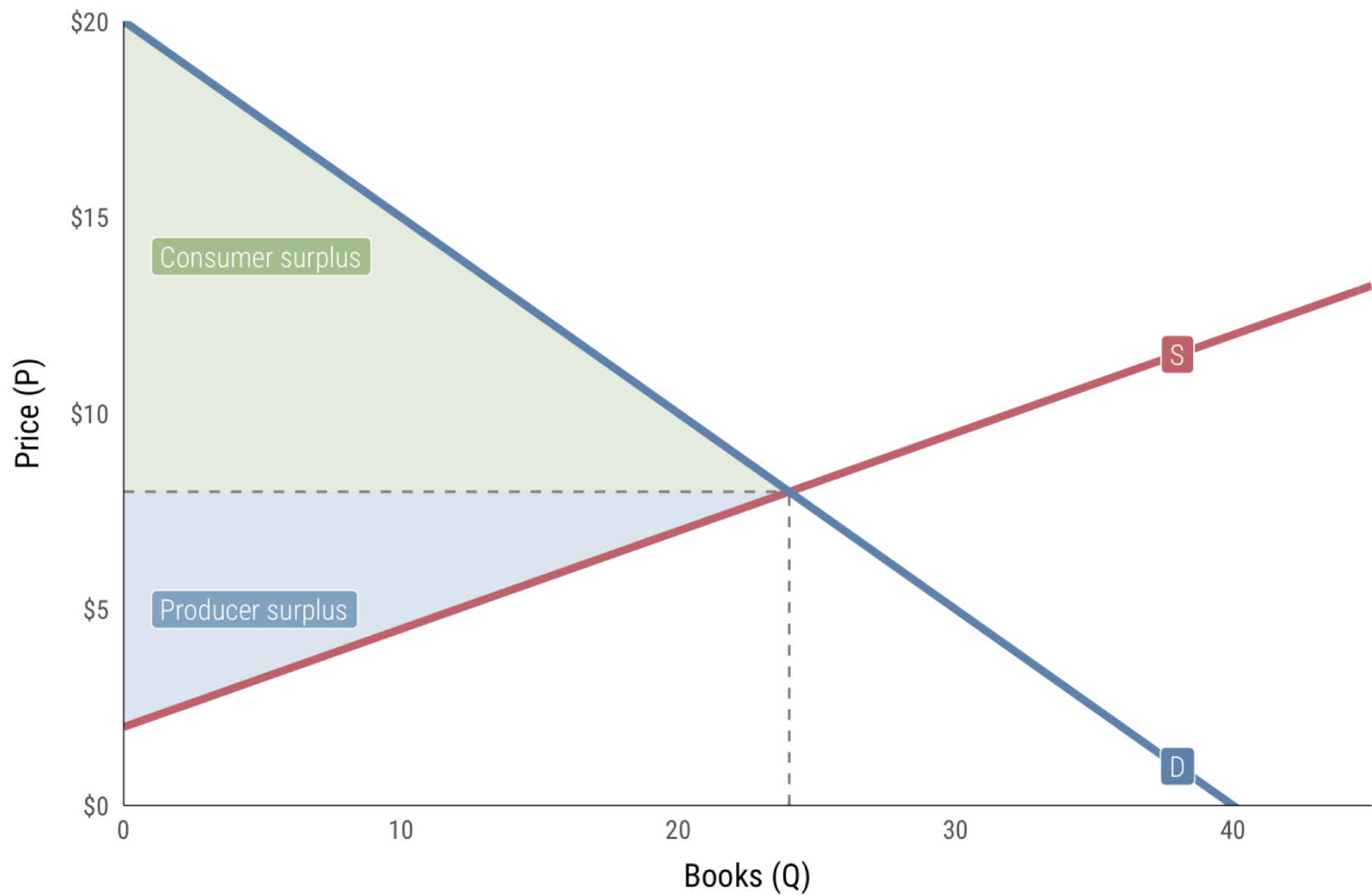


$$S : P = 2 + 0.25Q$$

$$D : P = 20 - 0.5Q$$

$$S : P = 2 + 0.25Q$$

$$D : P = 20 - 0.5Q$$



Taxes and distributional issues

Why do governments tax?

Raise revenue for services

Redistribute resources

Encourage or discourage consumption

What happens when governments tax?

Revenue raised for public goods

Resources redistributed

Markets distorted; loss of efficiency

Types of taxes

Excise

Income, payroll, sales, profit, property

$$S : P = 2 + 0.25Q$$

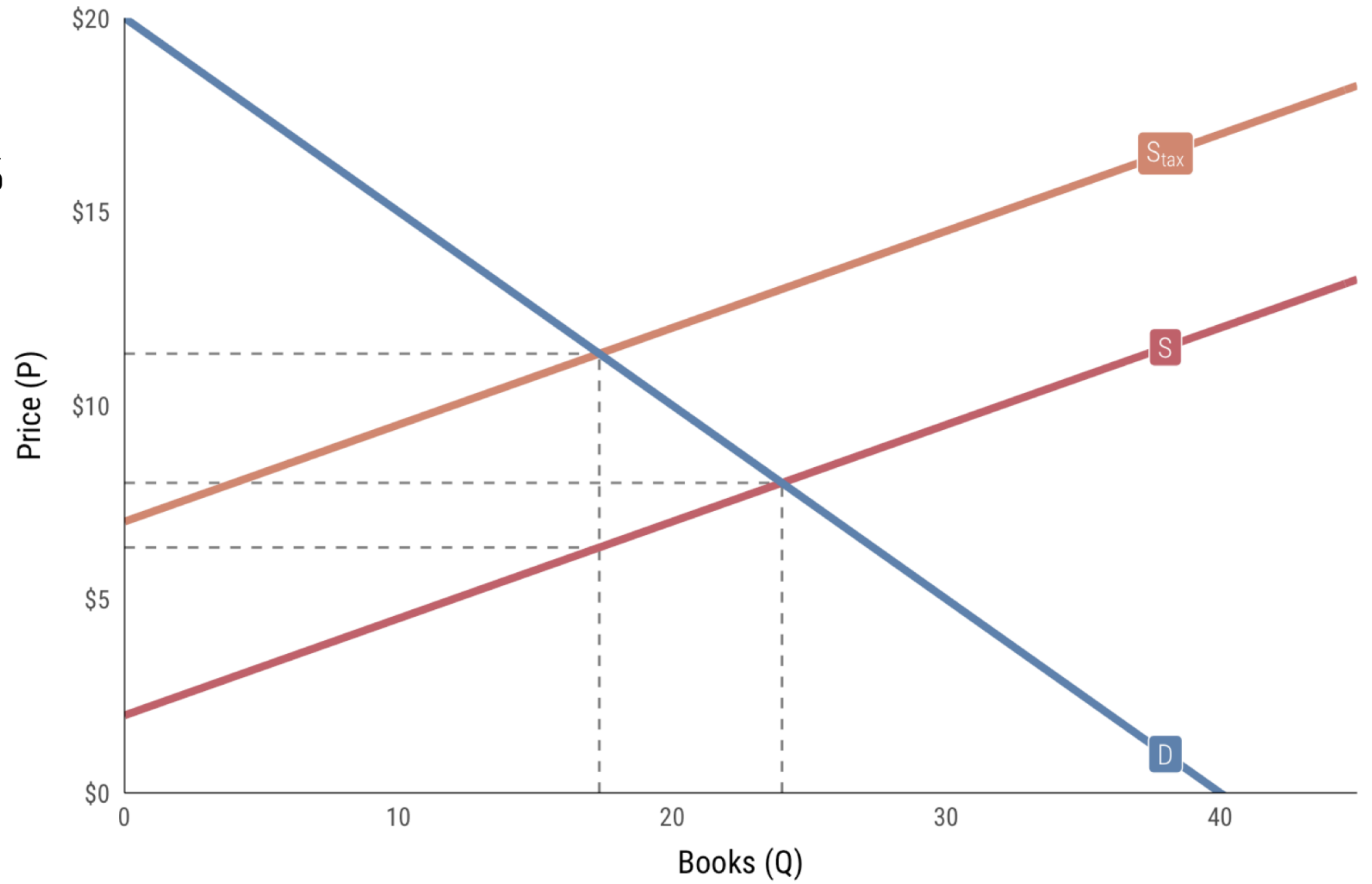
$$D : P = 20 - 0.5Q$$

$$S_{\text{tax}} : P = 2 + 0.25Q + 5$$

$$S : P = 2 + .025Q$$

$$D : P = 20 - 0.5Q$$

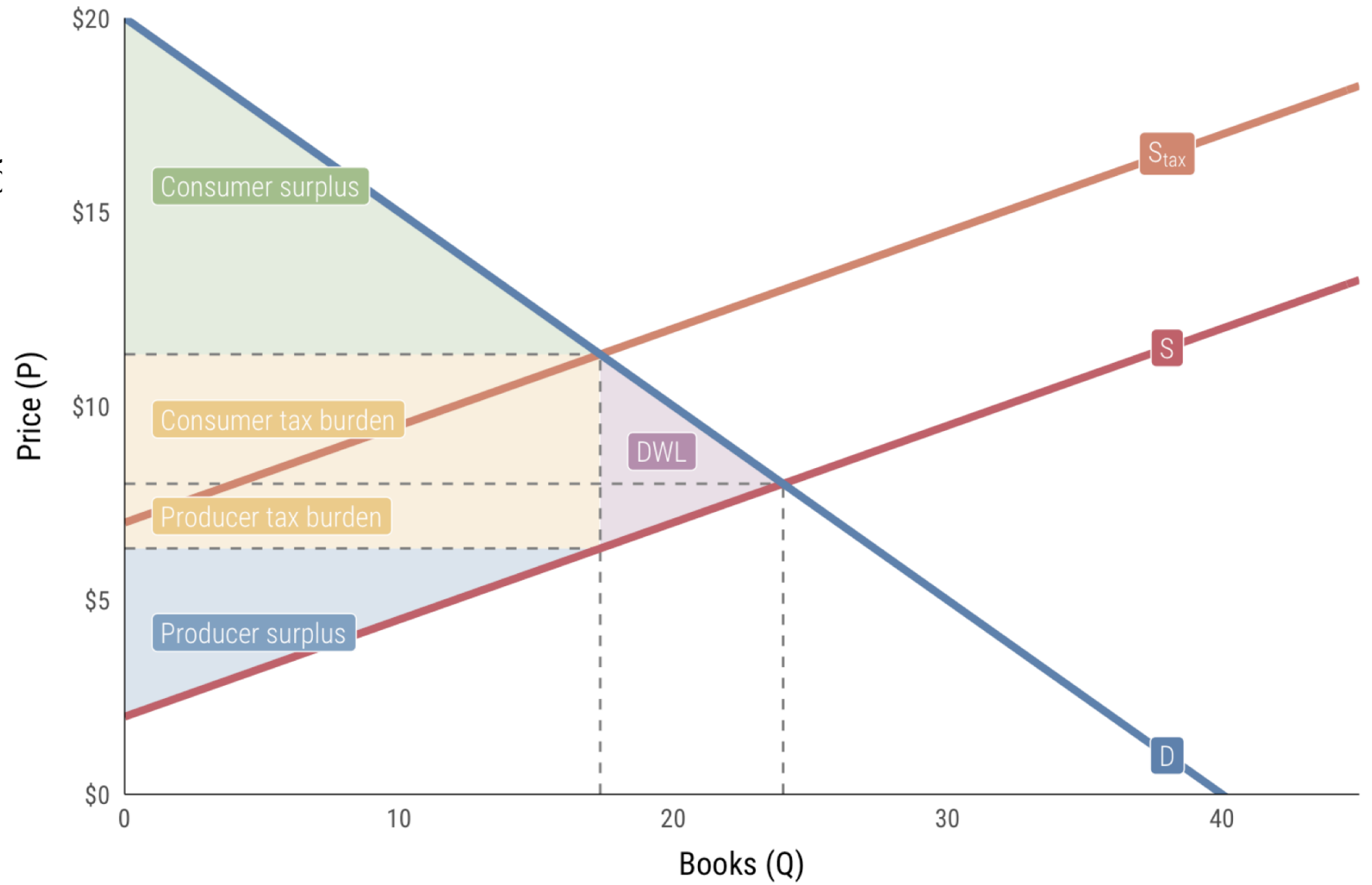
$$S_{\text{tax}} : P = 2 + 0.25Q + 5$$



$$S : P = 2 + 0.25Q$$

$$D : P = 20 - 0.5Q$$

$$S_{\text{tax}} : P = 2 + 0.25Q + 5$$



$$S_1 : P = 2 + 0.25Q$$

$$S_3 : P = 2 + 0.05Q$$

$$D_1 : P = 10 - 0.05Q$$

$$D_3 : P = 20 - 0.5Q$$

$$S_{1 \text{ tax}} : P = 2 + 0.25Q + 5$$

$$S_{3 \text{ tax}} : P = 2 + 0.05Q + 5$$

$$S_2 : P = 2 + 0.25Q$$

$$S_4 : P = 2 + 1.5Q$$

$$D_2 : P = 20 - 2Q$$

$$D_4 : P = 20 - 0.5Q$$

$$S_{2 \text{ tax}} : P = 2 + 0.25Q + 5$$

$$S_{4 \text{ tax}} : P = 2 + 1.5Q + 5$$

P and Q at competitive equilibrium

Size of producer and consumer surpluses

P and Q at tax equilibrium

Size of deadweight loss

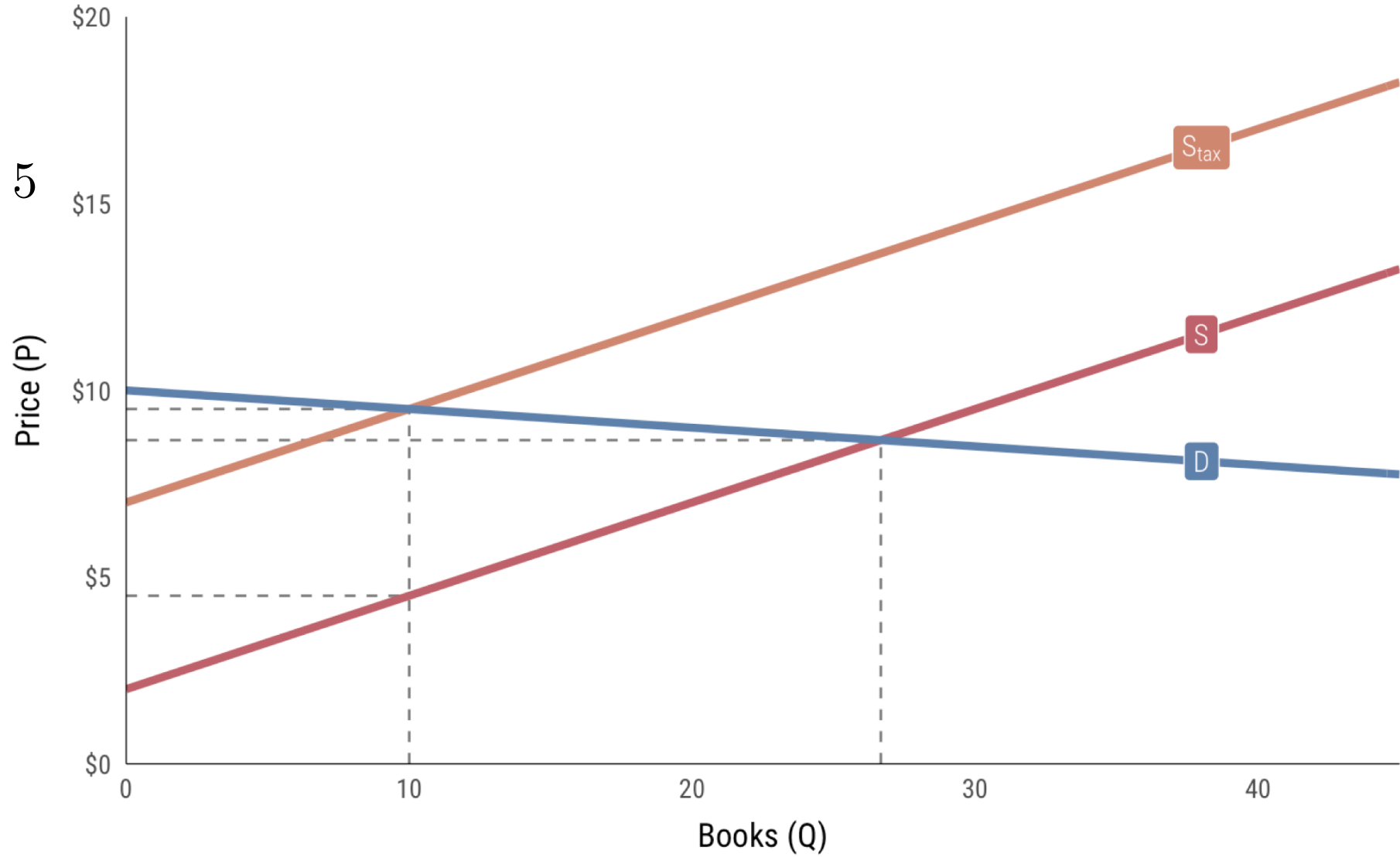
Producer and consumer incidence

1: Elastic demand

$$S_1 : P = 2 + 0.25Q$$

$$D_1 : P = 10 - 0.05Q$$

$$S_{1 \text{ tax}} : P = 2 + 0.25Q + 5$$

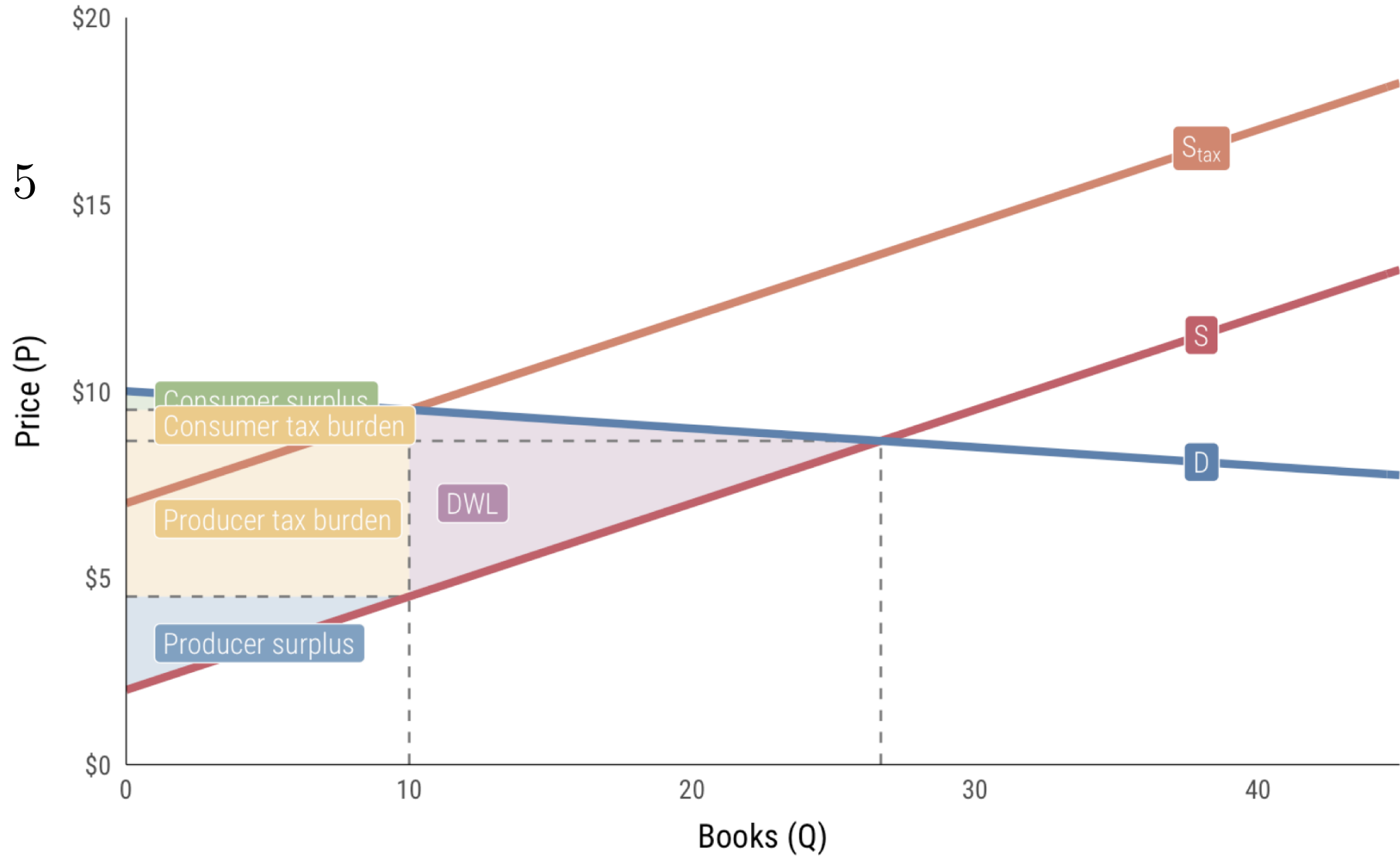


1: Elastic demand

$$S_1 : P = 2 + 0.25Q$$

$$D_1 : P = 10 - 0.05Q$$

$$S_{1 \text{ tax}} : P = 2 + 0.25Q + 5$$

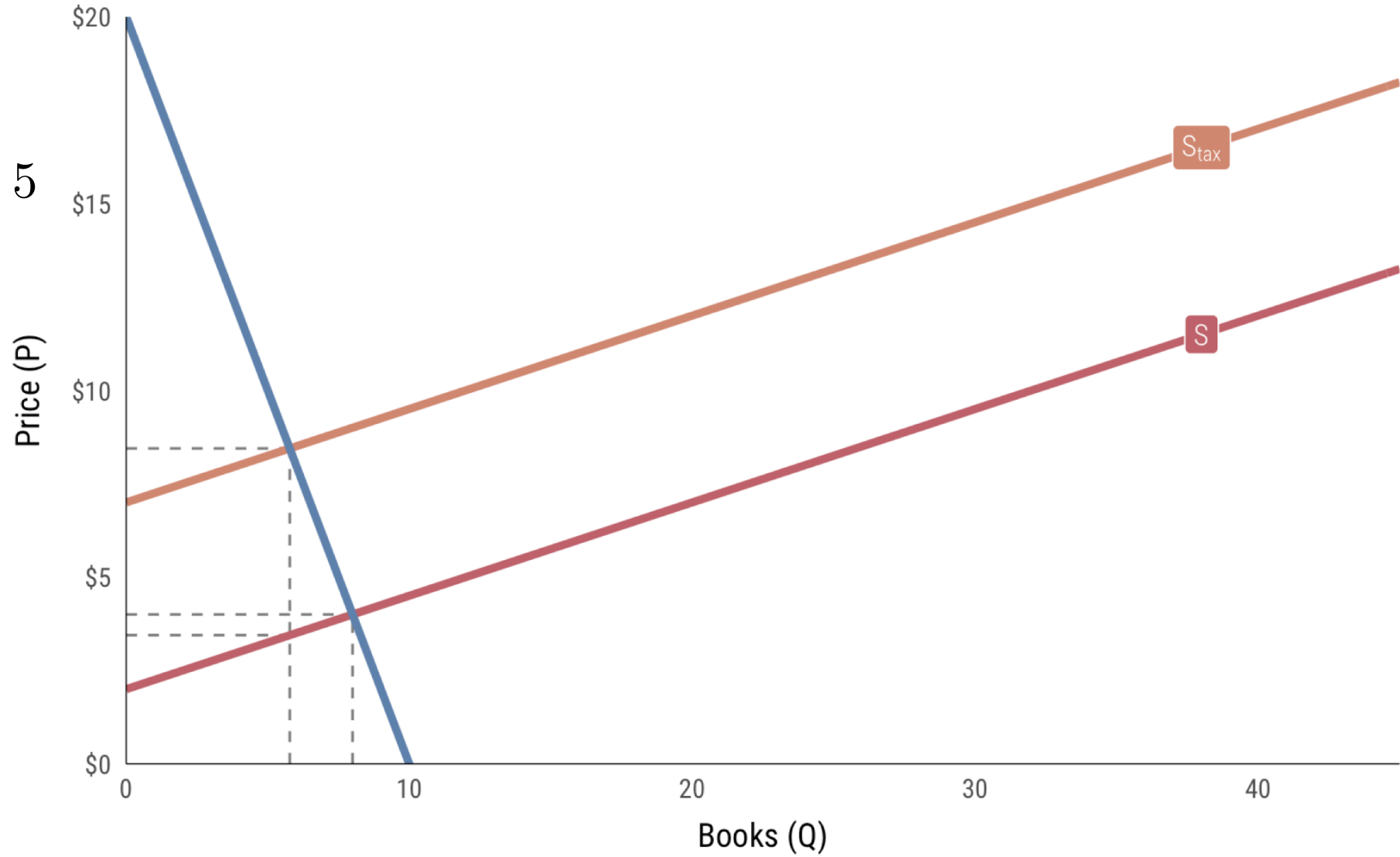


2: Inelastic demand

$$S_2 : P = 2 + 0.25Q$$

$$D_2 : P = 20 - 2Q$$

$$S_{2 \text{ tax}} : P = 2 + 0.25Q + 5$$

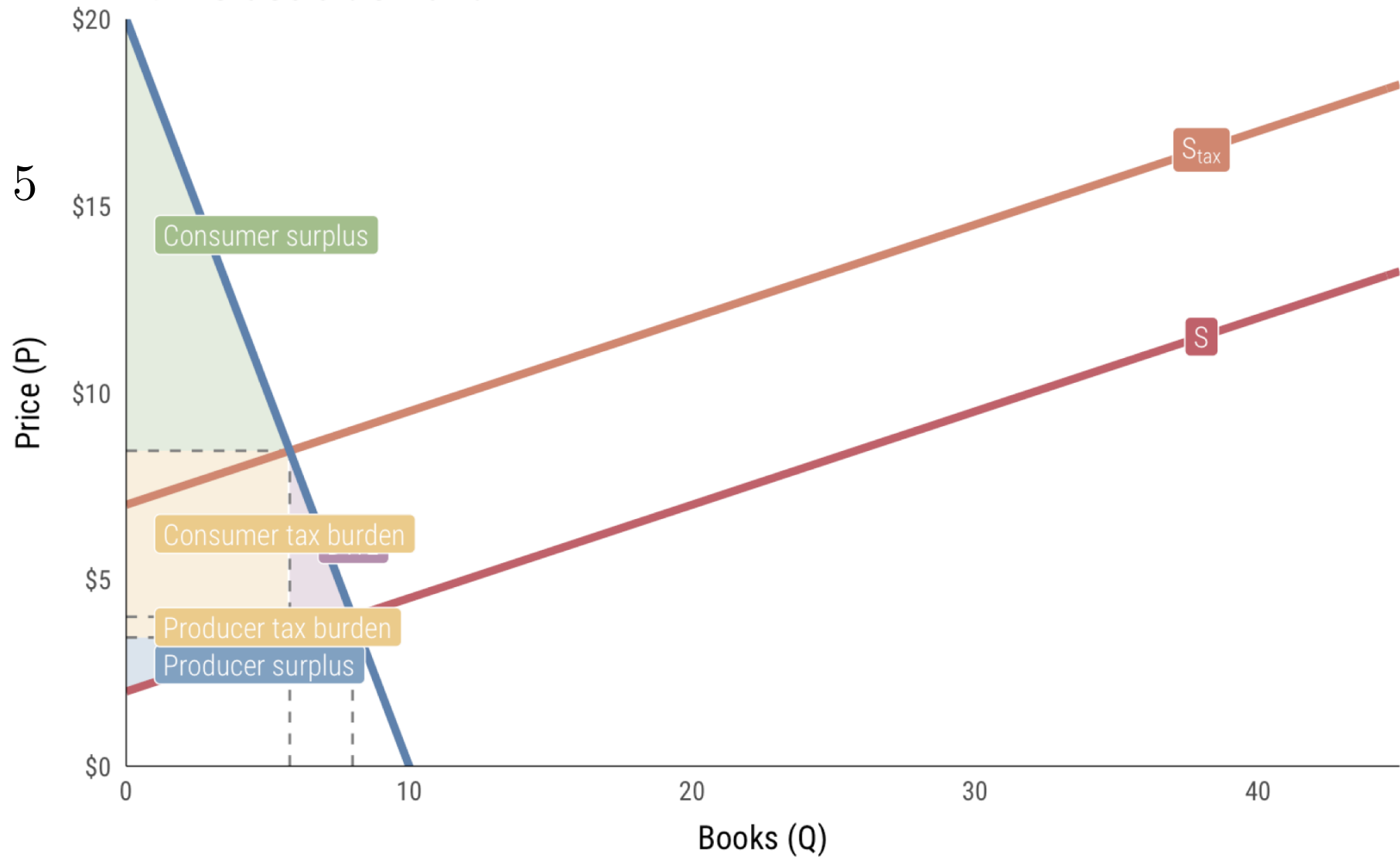


2: Inelastic demand

$$S_2 : P = 2 + 0.25Q$$

$$D_2 : P = 20 - 2Q$$

$$S_{2 \text{ tax}} : P = 2 + 0.25Q + 5$$

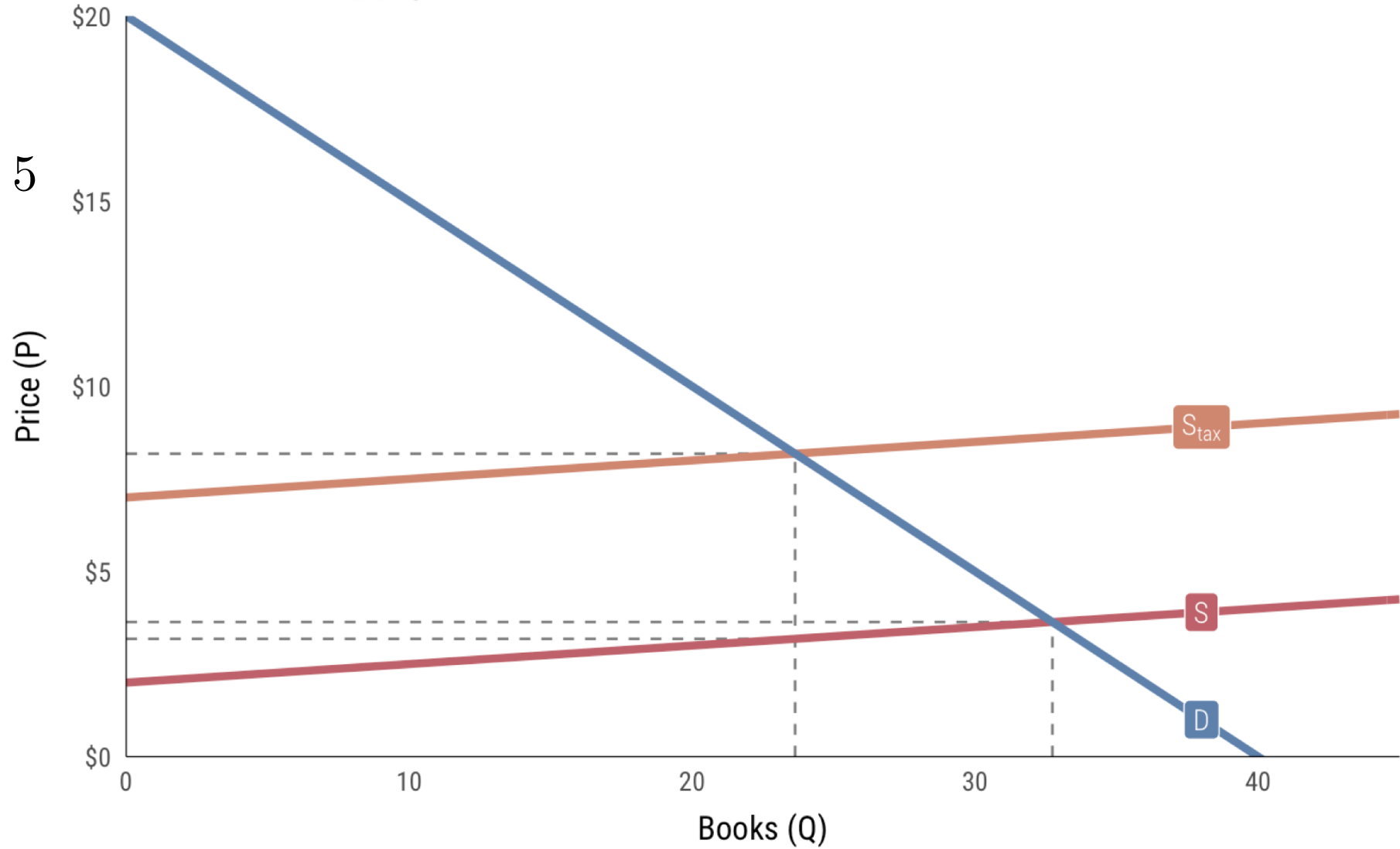


3: Elastic supply

$$S_3 : P = 2 + 0.05Q$$

$$D_3 : P = 20 - 0.5Q$$

$$S_{3 \text{ tax}} : P = 2 + 0.05Q + 5$$

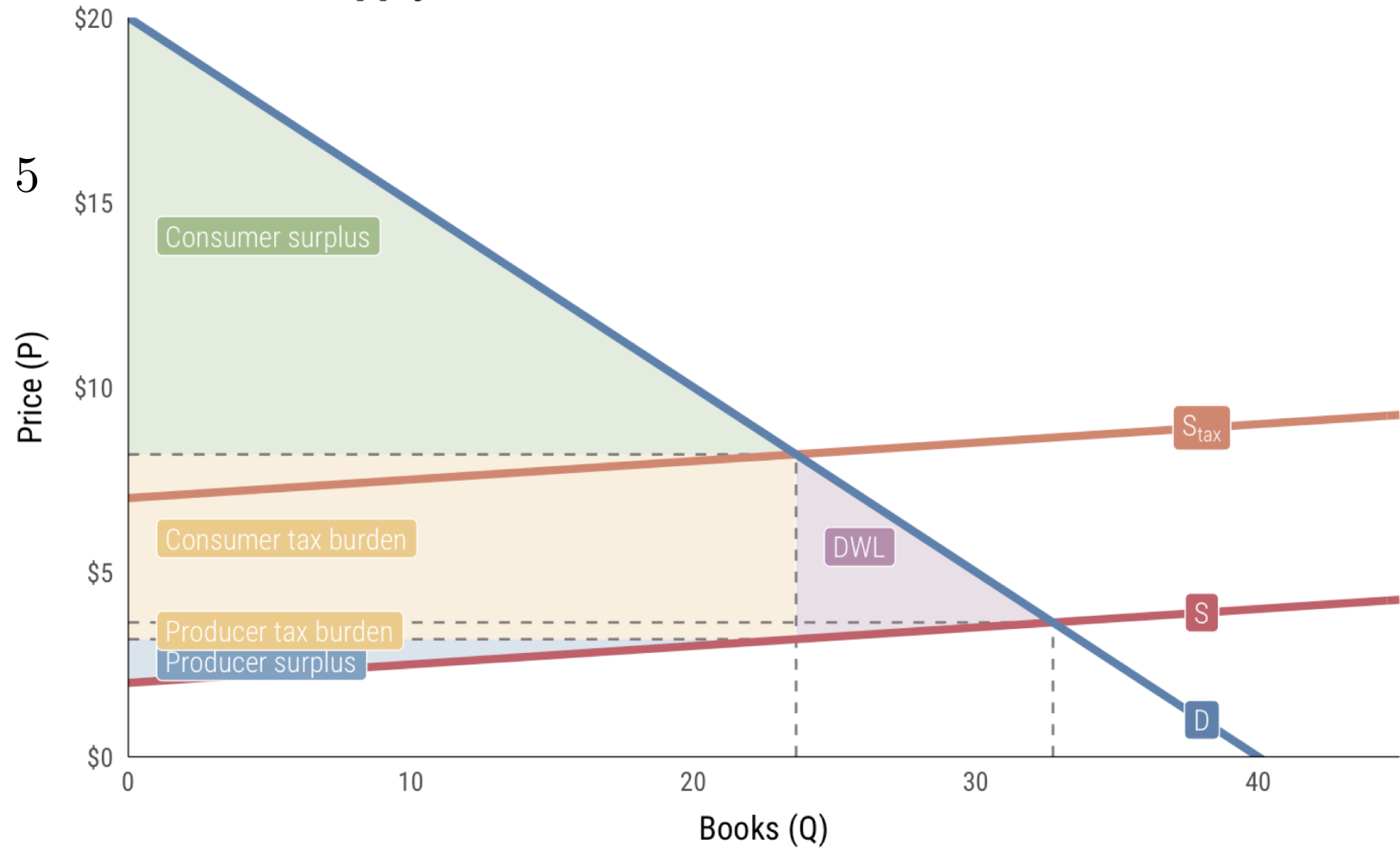


3: Elastic supply

$$S_3 : P = 2 + 0.05Q$$

$$D_3 : P = 20 - 0.5Q$$

$$S_{3 \text{ tax}} : P = 2 + 0.05Q + 5$$

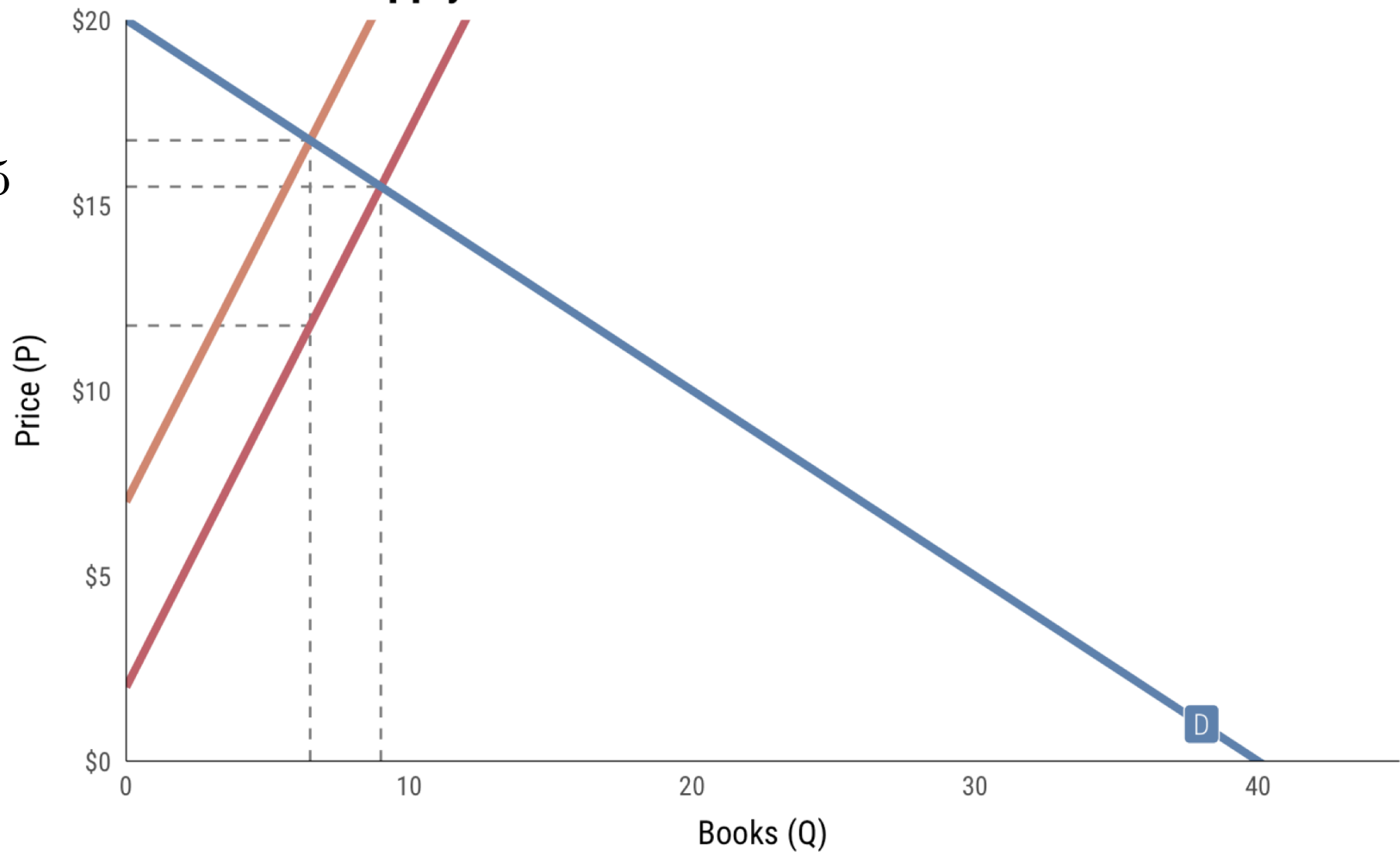


4: Inelastic supply

$$S_4 : P = 2 + 1.5Q$$

$$D_4 : P = 20 - 0.5Q$$

$$S_{4 \text{ tax}} : P = 2 + 1.5Q + 5$$

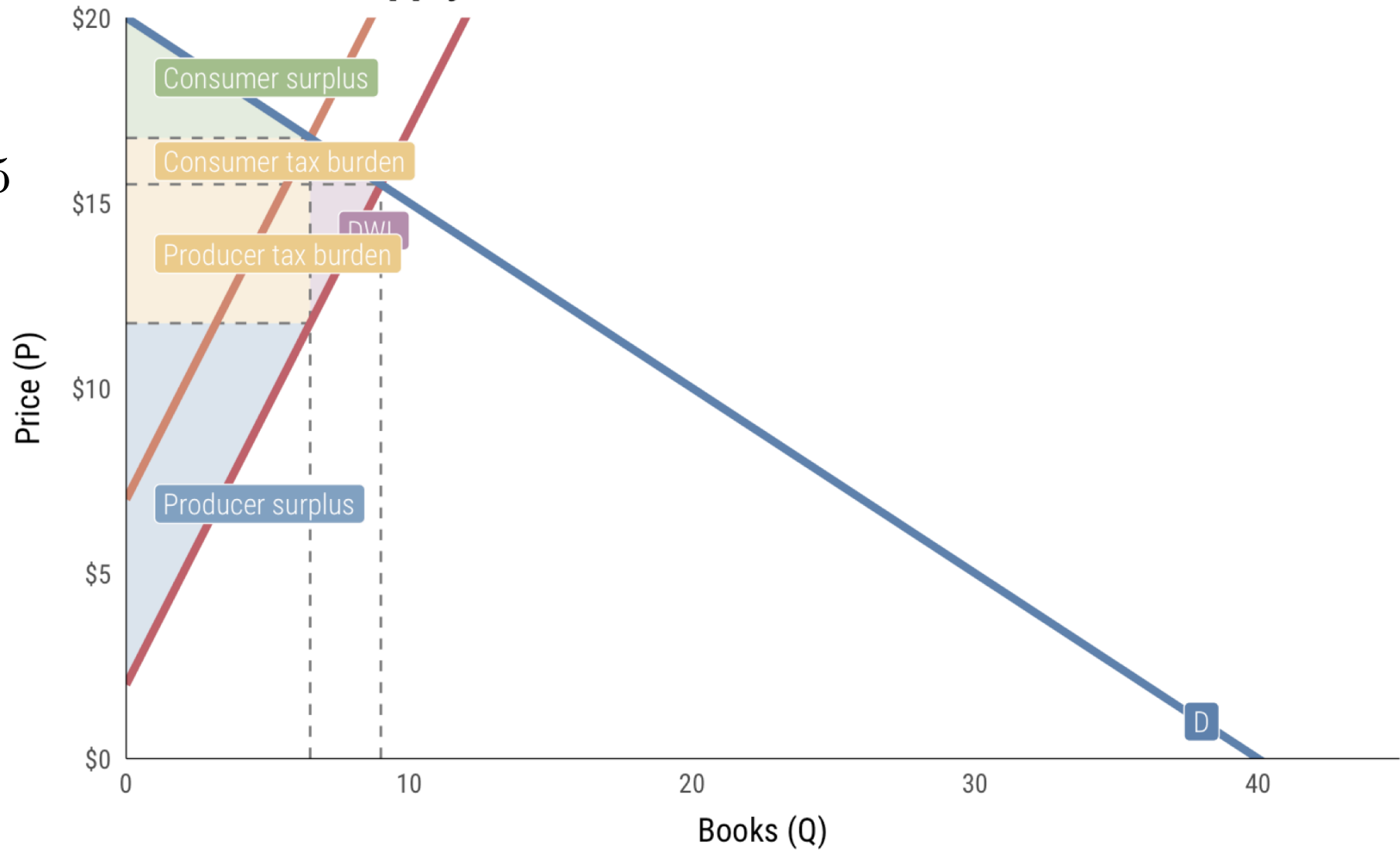


4: Inelastic supply

$$S_4 : P = 2 + 1.5Q$$

$$D_4 : P = 20 - 0.5Q$$

$$S_{4 \text{ tax}} : P = 2 + 1.5Q + 5$$



Tax incidence and ϵ

Incidence depends on elasticity of supply or demand

Tax burden falls on those least able to escape it

Incidence within consumers

Progressive taxes

Rich pay more

Income taxes (but loopholes)

Regressive taxes

Poor pay more

Sales taxes, payroll taxes

Tax fairness

Benefits principle

Those who benefit from public spending should bear the burden of the tax

Ability-to-pay principle

Those with a greater ability to pay a tax should pay more tax

Competition in a price-taking world

Messing with capitalism and competition to be
more capitalistic and competitive

Continued Existence Of Edible Arrangements Disproves Central Tenets Of Capitalism

3/31/11 8:00am • SEE MORE: OUR ANNUAL YEAR 2011 ▾

000



Economists say the franchise "goes against all we previously held to be true about the concept of supply and demand."



planet **money** THE ECONOMY EXPLAINED



15:51

GOVERNMENT

Episode 657: The Tale Of The Onion King

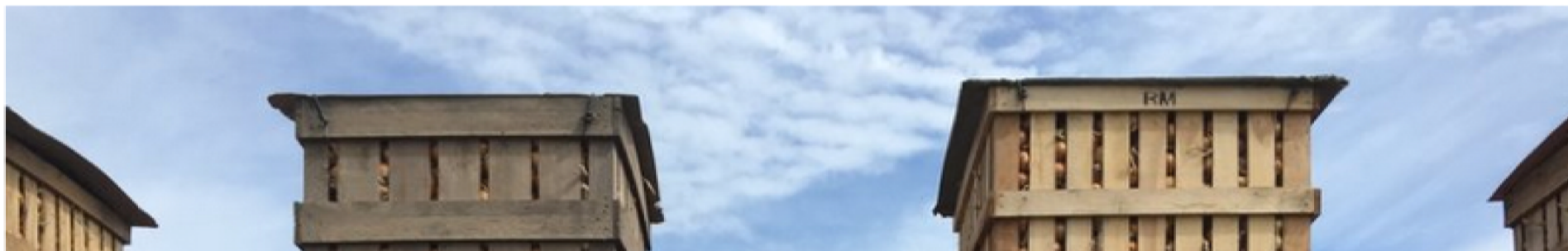
October 14, 2015 · 9:10 PM ET

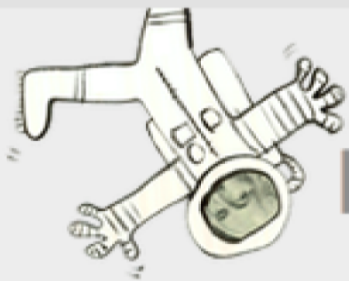
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planet **money** THE ECONOMY EXPLAINED



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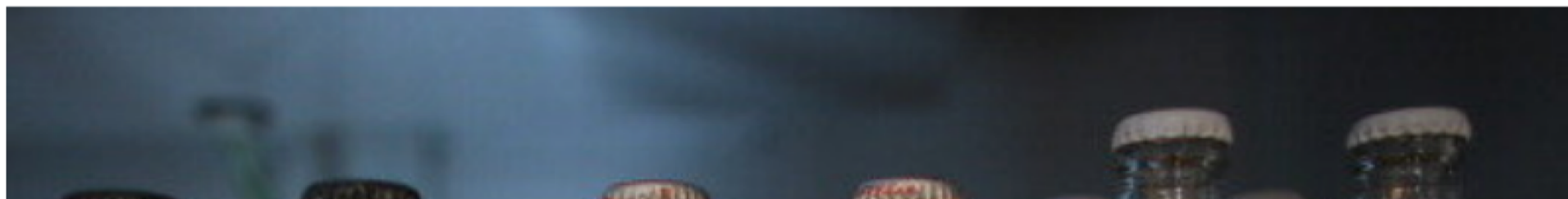
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TRADE

Episode 438: Mavericks, Monopolies And Beer

February 23, 2013 · 11:00 AM ET



Price-making firm

Sets P and Q to maximize π

$$MC < P$$

Deadweight loss

Advertising and marketing

Lobbying to influence politics

Research, innovation,
prevention of copying

Price-taking firm

Sets Q to maximize π , given P

$$MC = P$$

Pareto efficient

Little advertising (public good)

Little lobbying (public good)

Little incentive for innovation
because of risk of copying

Arts & Humanities



History



Language



Law

Science & Medicine



Social Sciences

Is competition always good?

MARCH 25TH 2013