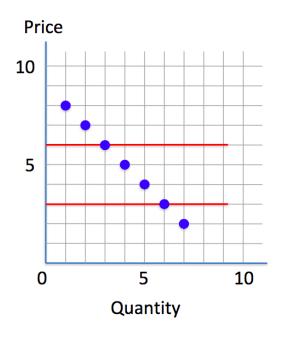
Consumer Surplus

Yisroel Cahn

April 1, 2022

Demand Curve



Maximum willing to pay

• Ali: \$8

• Bob: \$7

• Carl: \$6

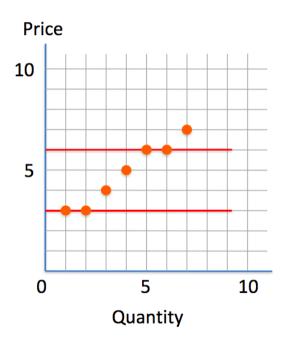
• Don: \$5

• Eli: \$4

• Flo: \$3

• Gigi: \$2

Supply Curve



Minimum willing to accept

Hal: \$3

• Ila: \$3

• Jon: \$4

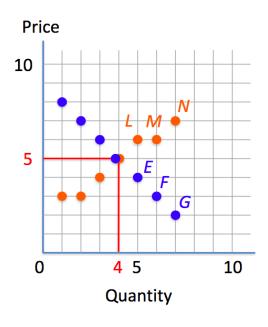
• Kay: \$5

• Lee: \$6

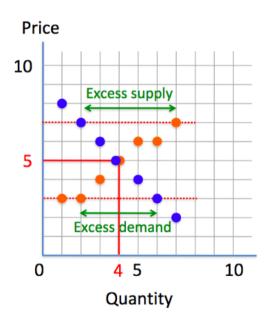
• Matt: \$6

• Nell: \$7

Market Equilibrium



Market Equilibrium



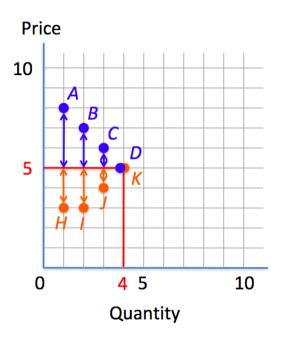
Normative Analysis

• Is this a "good" outcome?

Gains From Trade



Economic Surplus



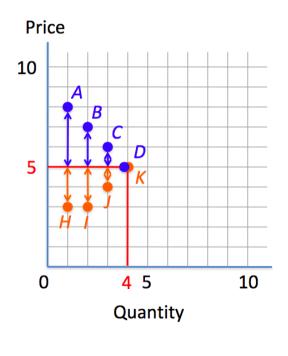
• Consumer surplus:

CS=(max. willingness to pay for 1st unit - market price)
+(max. willingness to pay for 2nd unit - market price)
+...+
+(max. willingness to pay for nth unit - market price)

• Producer surplus:

PS=(market price - min. willingness to part for 1st unit)
+(market price - min. willingness to part for 2nd unit)
+...+
+(market price - min. willingness to part for nth unit)

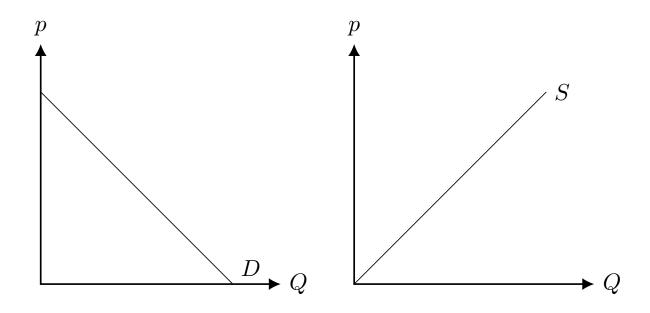
Economic Surplus



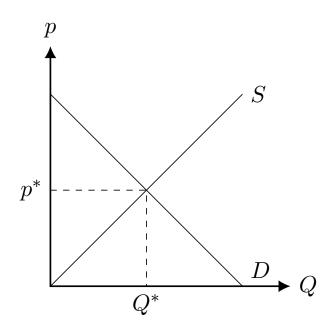
• Consumer surplus:

• Producer surplus:

Continuous Supply and Demand

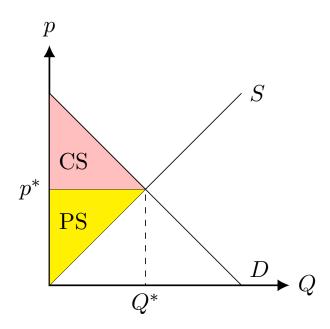


Continuous Supply and Demand



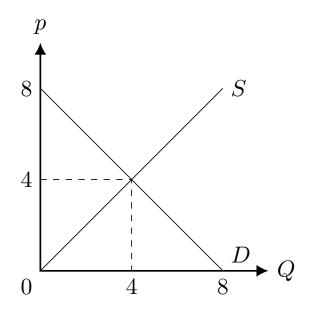
• This is the supply and demand curve with equilibrium price p^* and quantity Q^* .

Economic Surplus



• Area of a triangle = $\frac{1}{2}$ Base·Height

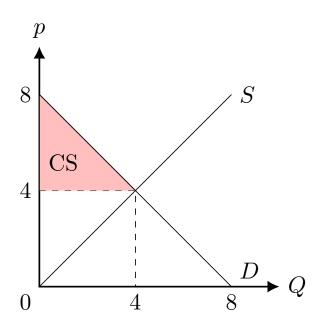
Practice Problem



What is the consumer surplus?

- (a) 4
- (b) 8
- (c) 10
- (d) 12

Answer



(b) Area of pink triangle = $\frac{1}{2}(4 \cdot 4) = 8$.