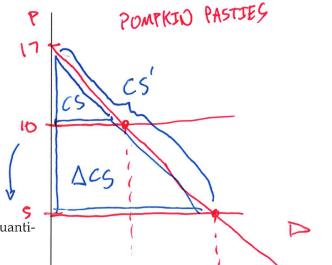
ECON 0100 | Fall 2024

Vignette B1

Members of the wizarding have preferences for pumpkin pasties according to the following demand curve:

$$\underline{P_b} = 17 - \frac{1}{6} \underline{Q_d} \tag{1}$$

Prices are in galleons and quantity is in thousands of pasties.



Q1. Plot the demand curve.

Start by finding the vertical intercept: plug in a value of 0 for quanti-P=17- 1.0=17

Then find the horizontal intercept: plug in a value of 0 for price.

$$Q = 17 - 6 \cdot Q \rightarrow 6Q = 17 \Rightarrow Q = 17 \cdot 6 = 106$$

106 Q

Q2. Plot and find the quantity demanded at a price of 10 galleons.

Q3. Plot and find the area of consumer surplus at a price of 10 galleons.

Q4. Plot and find the quantity demanded at a price of 5 galleons.

Q5. Plot and find the area of consumer surplus at a price of 5 galleons.

Q6. How much did consumer surplus change as the price dropped from 10 to 5?