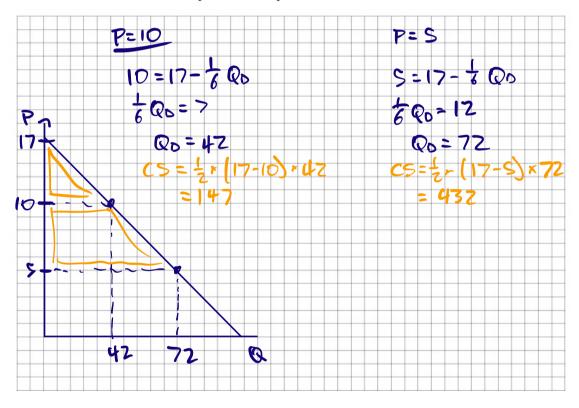
Econ 0100 | Classwork B1

Q1 | Consumer Surplus

Wizards and witches tend to enjoy pumpkin pasties for the nostalgic taste, with preferences represented by the following demand curve:

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

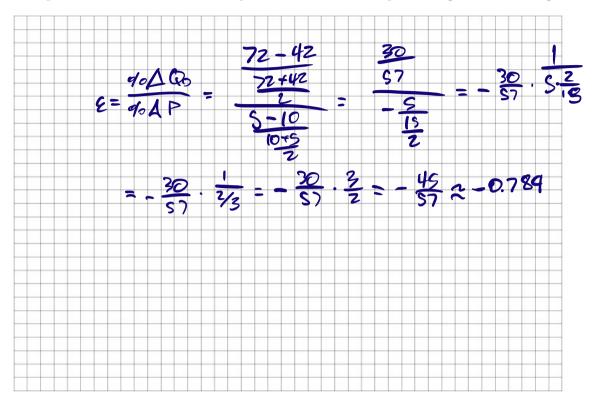
Use a graph to plot this demand curve, including the quandity demanded at both 5 galleons and 10 galleons. Then find and label the consumer surplus at these prices.



CS at 5 galleons: 437
CS at 10 galleons: 147

Q2 | Price Elasticity of Demand

Use the midpoint method to find the elasticity of demanded when the price changes from 5 to 10 galleons.



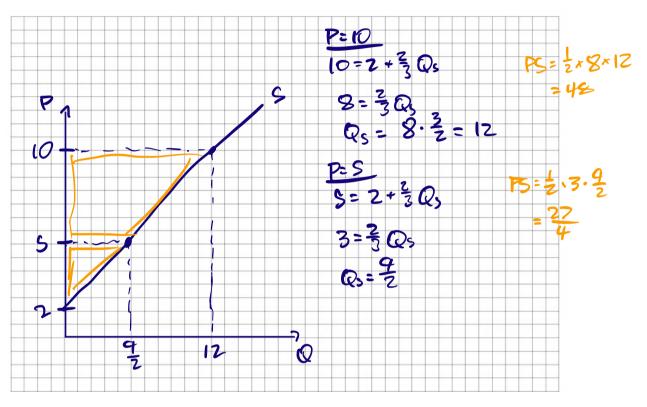
Elasticity of Demand: _______

Q3 | Producer Surplus

The supply curve for pumpkin pasties can be represented by the equation:

$$P=2+\frac{2}{3}Q_{\bf 5}$$

Use a graph to plot this supply curve, and find and label the producer surplus at both 5 galleons and 10 galleons.



PS at 5 galleons: 49
PS at 10 galleons: 49