

GABARITO

$$1) \quad Q^d = \frac{10}{P} \cdot Y$$

$$Q^s = 5P.$$

$$Q^d = Q^s$$

$$\text{se } Y = 15. \Rightarrow Q^d = \frac{150}{P} \quad ; \quad Q^s = 5P$$

$$\frac{150}{P} = 5P.$$

$$\Rightarrow P^Z = 30 \quad \Rightarrow P = \pm 5,47.$$

$$\text{ou:} \quad \ln Q^d = \ln 150 - \ln P$$

$$\ln Q^s = \ln 5 + \ln P.$$

$$\Rightarrow 2 \ln P = \ln 150 - \ln 5$$

$$2 \ln P = \ln (150/5)$$

$$2 \ln P = \ln 30.$$

$$\ln P = \frac{\ln 30}{2} = \frac{3,40}{2} = 1,70$$

$$\exp(\ln P) = P = 5,47.$$

$$\text{então: } Q = 5 \times 5,47 = 27,38$$

2) Sim; (velocidade)

3) Aumento da renda em 10%.

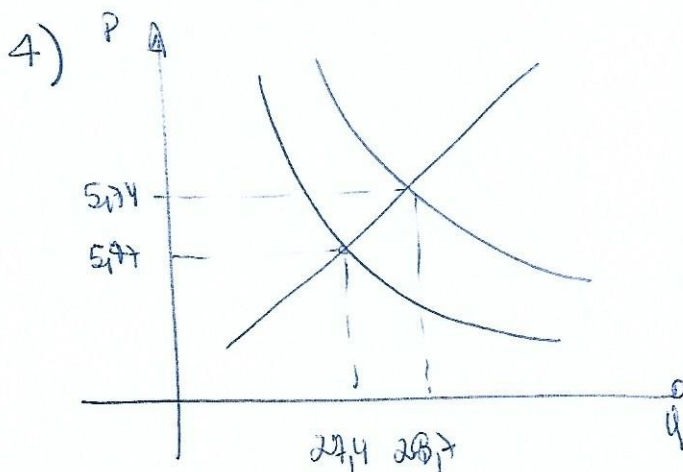
$$\Rightarrow Y_0 = 15 \quad , \quad Y_1 = 16,5$$

$$\Rightarrow \ln Q^d = \ln \left(\frac{16,5}{P} \right) \quad \text{ou} \quad Q^d = \frac{16,5}{P}$$

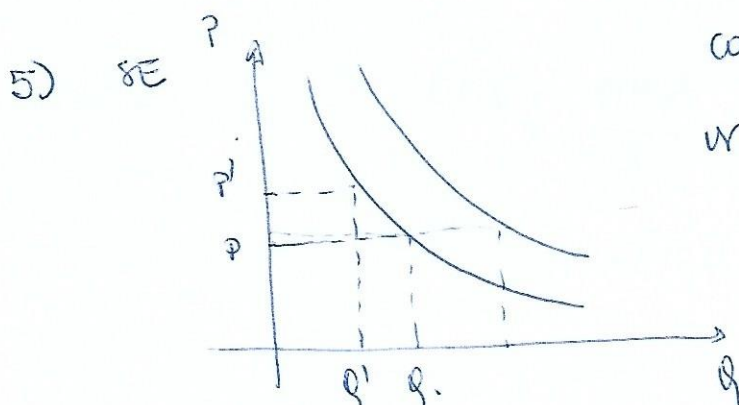
$$\rightarrow \ln p = \ln \left(\frac{16,5}{5} \right) = \ln 3,3$$

$$\ln p = 1,1947$$

$$p = 5,74 \quad , \quad q = 2,87$$



$$\frac{\Delta P}{\bar{P}} = \frac{5,74 - 5,47}{5,60} \approx 0,05 \quad (0,0482) \\ \approx 5\%$$



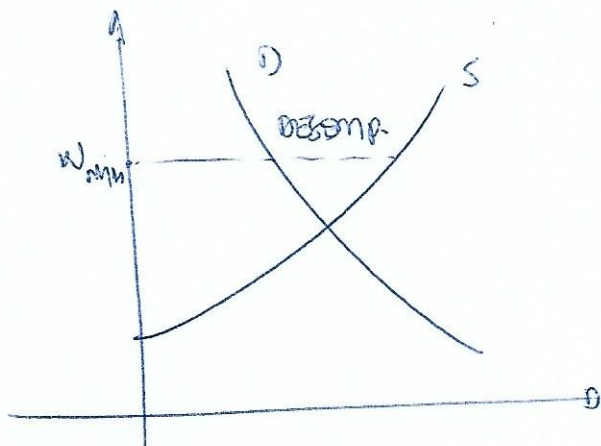
como a elasticidade é unitária $\Rightarrow \Delta R = 0$

6) Falso

$$R_0 = 5,47 \times 27,38 = 149,7686$$

$$R_1 = 5,74 \times 28,72 = ~~161,34~~ 164,85$$

7)



8) verdadeiro

9) Falso

10) verdadeiro