# Práctica N° 5

Ejercicio 01 Ecuación Demanda

Datos

$P_1 = 100$ $bs \quad P_2 = 60$ $bs$

$Q_1 = 20$ [Kilos] $\quad Q_2 = 40$ [Kilos]

Formula

$$\left[\frac{P_2 - P_1}{Q_2 - Q_1}\right] \cdot (Q_1 - D) = P_1 - P$$

$$\left[\frac{60-100}{40-20}\right] \cdot 20 - D = 100 - P$$

$$\frac{-40}{20} \cdot (20 - D) = 100 - P$$

$$-40 + 2D = 100 - P$$

$$2D = 100 + 40 - P$$

$$D = \frac{140}{2} - 0{,}5P$$

$$\boxed{D = 70 - 0{,}5P}$$

Ecuación Demanda

Ejercicio 02.

Se Vende

Datos

Formula

$$\left[\frac{P_2 - P_1}{Q_2 - Q_1}\right] \cdot (Q_1 - D) = P_1 - P$$

$P_1 = 100$ bs $\quad P_2 = 60$ bs

$Q_1 = 30 \quad Q_2 = 50$

$$\left[\frac{60-100}{50-30}\right] \cdot (30 - D) = 100 - P$$

$$\frac{-40}{20} \cdot (30 - D) = 100 - P$$

$$-60 + 2D = 100 - P$$

$$2D = 160 - P$$

$$\boxed{D = 80 - 0{,}5}$$

Ejercicio 03

Datos

$P_1 = 700 \quad P_2 = 500$

$Q_1 = 80 \quad Q_2 = 400$

$$\left[\frac{500 - 700}{400 - 80}\right] \cdot (80 - D) = 700 - P$$

$$\frac{-200}{320} \cdot (80 - D) = 700 - P$$

$$-\frac{5}{8} \cdot (80 - D) = (700 - P)8$$

$$-400 + 5D = 5600 - 8P$$

$$D = (6000 - 8P) / 5$$

$$D = 1200 - 1{,}6P$$

ecuación Demanda

Ejercicio 01

$P_1 = 50$ $P_2 = 100$

$Q_1 = 300$ $Q_2 = 400$

$$\left[\frac{P_2 - P_1}{Q_2 - Q_1}\right] * (Q_1 - 0) = P_1 - P$$

$$\left[\frac{100 - 50}{400 - 300}\right] * (300 - 0) = 50 - P$$

$$\frac{50}{100} * (300 - 0) = 50 - P$$

$$\frac{1}{2} * (300 - 0) = 50 - P$$

$$300 - 0 = 25 - 0{,}5P$$

$$-0 = -375 - 0{,}5P \quad /(-1)$$

$$\boxed{0 = 375 + 0{,}5P}$$

Ejemplo 02.

Datos

$P_1 = 30$ $P_2 = 45$

$Q_1 = 100$ $Q_2 = 200$

$$\left[\frac{P_2 - P_1}{Q_2 - Q_1}\right] * (Q_1 - 0) = P_1 - P$$

$$\left[\frac{45 - 30}{200 - 100}\right] * (100 - 0) = 30 - P$$

$$\frac{15}{100} * (100 - 0) = 30 - P$$

$$15 * 100 - 0{,}15 = \frac{30}{100} - \frac{P}{100}$$

$$1500 - 150 = 0{,}3 - 0{,}01P$$

$$-150 = 0{,}3 - 1500 - 0{,}01P$$

$$-150 = -1499{,}7 - 0{,}01P \cdot (-1)$$

$$\boxed{0 = 99{,}98 + 0{,}00067}$$

Ecuación oferta.