

Calculos

$$I = \frac{V}{R_L}$$

$$V = I * R$$

$$\text{Potencia } P = R * I^2$$

$$P = V * I$$

Para la $R = 220 \, \Omega$

$$I = \frac{V}{R}$$

$$I = \frac{15}{1420}$$

$$I = 0.010 \, A$$

$$V = I * R$$

$$V = (0.010) * 220$$

$$V = 2.2 \, V$$

$$P = R * I^2$$

$$P = 220 * (0.010)^2 = 0.022 \, W$$

$$P = V * I$$

$$P = 2.2 * (0.010) = 0.022 \, W$$

Para la $R = 470 \, \Omega$

$$I = \frac{V}{R}$$

$$I = \frac{15}{1670}$$

$$I = 0.0089 \, A$$

$$V = I * R$$

$$V = (0.0089) * 470$$

$$V = 4.183 \, V$$

$$P = R * I^2$$

$$P = 470 * (0.0089)^2 = 0.0372 \text{ W}$$

$$P = V * I$$

$$P = 4.183 * (0.0089) = 0.0372 \text{ W}$$

Para la R = 680 Ω

$$I = \frac{V}{R}$$

$$I = \frac{15}{1880}$$

$$I = 0.0079 \text{ A}$$

$$V = I * R$$

$$V = (0.0079) * 680$$

$$V = 5.372 \text{ V}$$

$$P = R * I^2$$

$$P = 680 * (0.010)^2 = 0.042 \text{ W}$$

$$P = V * I$$

$$P = 2.2 * (0.010) = 0.042 \text{ W}$$

Para la R = 820 Ω

$$I = \frac{V}{R}$$

$$I = \frac{15}{2020}$$

$$I = 0.0074 \text{ A}$$

$$V = I * R$$

$$V = (0.0074) * 820$$

$$V = 6.06 \text{ V}$$

$$P = R * I^2$$

$$P = 820 * (0.0074)^2 = 0.044 \text{ W}$$

$$P = V * I$$

$$P = 6.068 * (0.0074) = 0.044 \text{ W}$$

Para la $R = 1000 \Omega$

$$I = \frac{V}{R}$$

$$I = \frac{15}{2200}$$

$$I = 0.0068 \text{ A}$$

$$V = I * R$$

$$V = (0.0068) * 1000$$

$$V = 6.8 \text{ V}$$

$$P = R * I^2$$

$$P = 1000 * (0.0068)^2 = 0.046 \text{ W}$$

$$P = V * I$$

$$P = 6.8 * (0.0068) = 0.046 \text{ W}$$

Para la $R = 1500 \Omega$

$$I = \frac{V}{R}$$

$$I = \frac{15}{2700}$$

$$I = 0.0055 \text{ A}$$

$$V = I * R$$

$$V = (0.0055) * 1500$$

$$V = 8.25 \text{ V}$$

$$P = R * I^2$$

$$P = 1500 * (0.0055)^2 = 0.045 \text{ W}$$

$$P = V * I$$

$$P = 8.25 * (0.0055) = 0.045 \text{ W}$$

Para la $R = 1880 \Omega$

$$I = \frac{V}{R}$$

$$I = \frac{15}{3000}$$

$$I = 0.005 \text{ A}$$

$$V = I * R$$

$$V = (0.005) * 1800$$

$$V = 9 \text{ V}$$

$$P = R * I^2$$

$$P = 1800 * (0.005)^2 = 0.045 \text{ W}$$

$$P = V * I$$

$$P = 9 * (0.005) = 0.045 \text{ W}$$

Para la $R = 2200 \Omega$

$$I = \frac{V}{R}$$

$$I = \frac{15}{3400}$$

$$I = 0.0044 \text{ A}$$

$$V = I * R$$

$$V = (0.0044) * 2220$$

$$V = 9.68 \text{ V}$$

$$P = R * I^2$$

$$P = 2200 * (0.0044)^2 = 0.042 \text{ W}$$

$$P = V * I$$

$$P = 9.68 * (0.0044) = 0.042 \text{ W}$$

Para la $R = 220 \Omega$

$$I = \frac{V}{R}$$

$$I = \frac{15}{5100}$$

$$I = 0.0029 \text{ A}$$

$$V = I * R$$

$$V = (0.0029) * 3900$$

$$V = 11.31 \text{ V}$$

$$P = R * I^2$$

$$P = 3900 * (0.0029)^2 = 0.032 \text{ W}$$

$$P = V * I$$

$$P = 11.31 * (0.0029) = 0.032 \text{ W}$$

Para la $R = 4700 \Omega$

$$I = \frac{V}{R}$$

$$I = \frac{15}{5900}$$

$$I = 0.0025 \text{ A}$$

$$V = I * R$$

$$V = (0.0025) * 4700$$

$$V = 11.75 \text{ V}$$

$$P = R * I^2$$

$$P = 4700 * (0.0025)^2 = 0.029 \text{ W}$$

$$P = V * I$$

$$P = 11.75 * (0.0025) = 0.029 \text{ W}$$