

Semana 6

$$1) n = 1.100 \quad t = 60 \text{ seg} \quad t = 2 \quad n = ?$$
$$t = \frac{t}{n} \quad n = \frac{1}{t}$$

$$t = 60 \text{ seg} = 0.0541 \text{ seg} \quad n = \frac{1}{0.0541} = 20415$$

$$2) n = 150 \quad t = 60 \quad t = ?$$

$$t = \frac{t}{n}$$

$$t = \frac{60}{15} = 0.4 \text{ seg}$$

$$3) t = 15 \text{ seg} \quad n = 4 \quad \omega = 1440^\circ$$

$$\omega = 110$$

$$\omega = 1440^\circ \Rightarrow \omega = 90 \text{ gradu seg}$$

$$t = \frac{1}{f}$$

$$\omega = \frac{2\pi \text{ rad}}{t}$$

$$t = \frac{15}{4} = 3.75 \text{ sec} \quad \omega = \frac{2(3.14) \text{ rad}}{3.75 \text{ sec}}$$

$$\omega = 1.67 \text{ radians/sec}$$

$$4) n = 30 \quad t = 50 \text{ sec} \quad f = ? \quad N = 9$$

$$\theta = 18,500 \quad \omega = \frac{\theta}{t}$$

$$\omega = 2\pi f$$

$$\omega = \frac{28,100}{60} \quad \omega = 480 = \text{rad/sec}$$

$$\omega = \frac{2(3.14) \text{ rad}}{0.78 \text{ sec}}$$

$$5) n = 1 \times 1$$

$$t = 60 \text{ sec} \quad t = ?$$

$$t = \frac{1}{n}$$

$$\frac{1}{60 \text{ sec}} = \frac{1}{121}$$

$$t = 0.50 \text{ sec}$$

$$6) n = 3$$

$$t = 5 \text{ sec}$$

$$\Rightarrow 1.08 \text{ g/grad}$$

$$w = \frac{Q}{t}$$

$$t = \frac{1}{n}$$

$$w = \frac{12.8 \text{ grad}}{2 \text{ sec}}$$

$$t = 5 \text{ sec}$$

$$w = 13.8 \text{ grad/sec}$$

$$t = 267.3 \text{ sec}$$

$$w = 2.3 \text{ rad/sec}$$

$$1. \phi = 1,380$$

$$f = 6005 \text{ Hz} \quad \phi = 846,000$$

$$w = \frac{\phi}{T}$$

$$w = 846,000$$

$$w = 209 \text{ grados / seg}$$