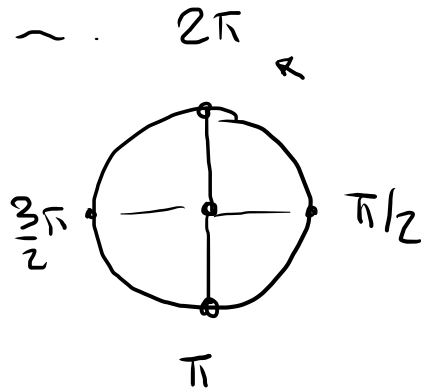
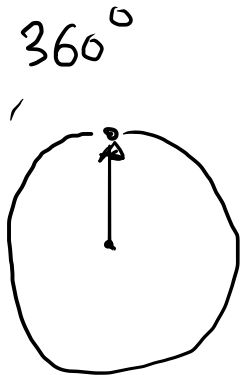
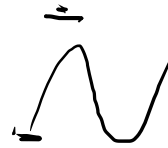


angoli, tempi, freq e sin

3

$$y = \sin(x) = \sin(t)$$

50Hz



$$\alpha^{\circ} : 360^{\circ} = \alpha_r : 2\pi$$

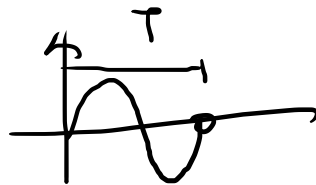
$$\alpha_r = \frac{\alpha^{\circ} \cdot 2\pi}{360} = \alpha^{\circ} \cdot \frac{\pi}{180}$$

$$\alpha^{\circ} = \frac{180}{360} \cdot \alpha_r = \alpha_r \cdot \frac{180}{\pi}$$

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

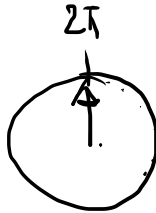
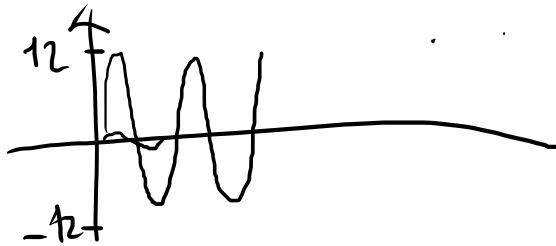
↓ ↓
Hz s

$$\frac{1}{50} = 0,02$$



$$v(t) = A \cdot \sin \left(\underbrace{2\pi f \cdot t}_{\text{Phi}} + \underbrace{\varphi}_{\text{phase}} \right)$$

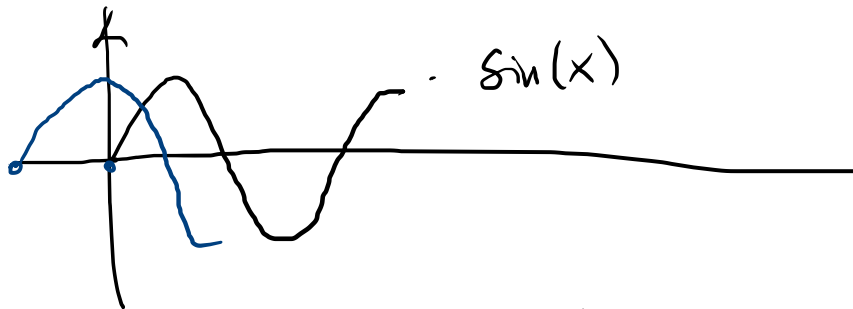
$$= 12 \cdot \sin(\underbrace{t}_{\text{Phi}})$$



$$2\pi \cdot f \cdot t$$

$$\underbrace{2\pi \cdot \underbrace{\frac{1}{T}}_{\text{f}}} \cdot t$$

$$v = \frac{S}{t}$$



$$\underline{\sin(x + 90)}$$

$$\pm 12 \text{ V} \quad \dots f \quad 100 \text{ Hz}$$

$$\underline{12 \cdot \sin(2\pi \cdot 100 \cdot t)}$$