

1.02

lördag 20 januari 2024

16:03

$$A = 3$$

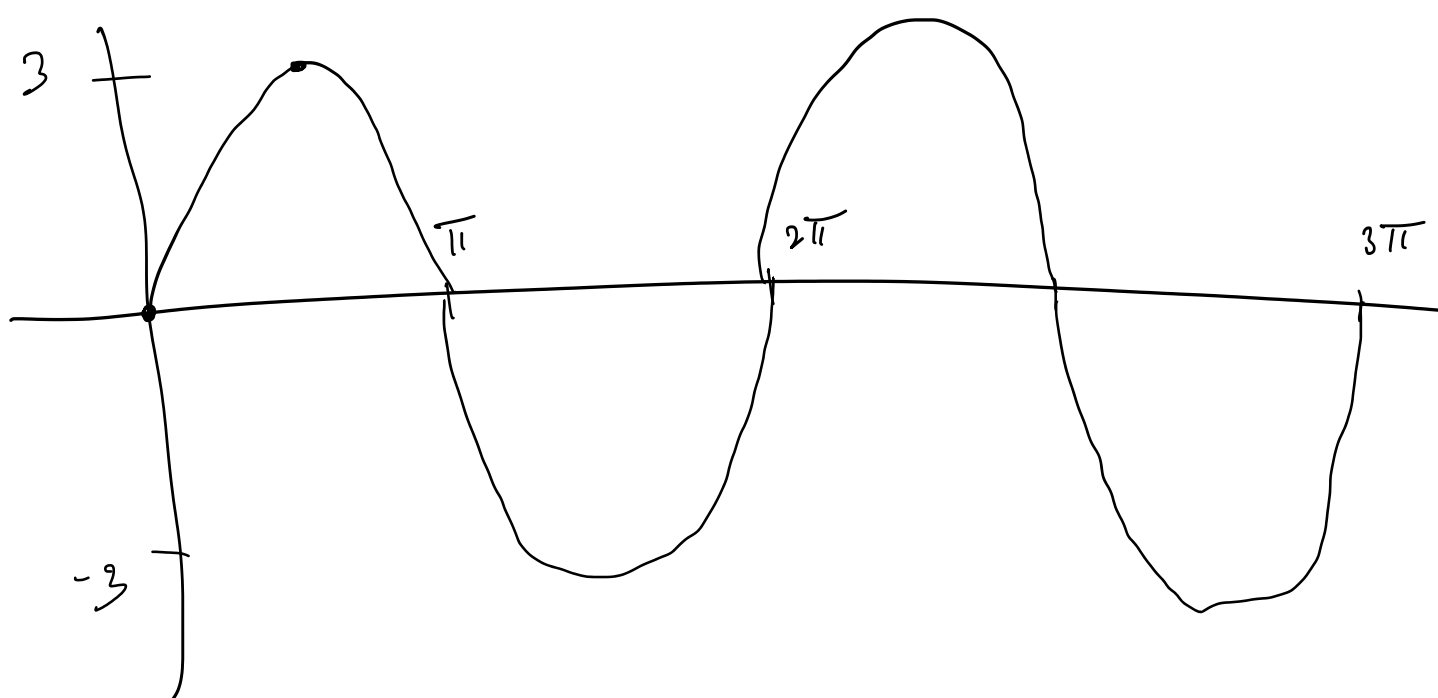
a)

$$\omega = 1 \quad T = \frac{2\pi}{\omega} = 2\pi \quad f = \frac{1}{2\pi}$$

$$u(t) = 3 \sin(t)$$

$$u(0) = 0 \quad u(\pi) = 0$$

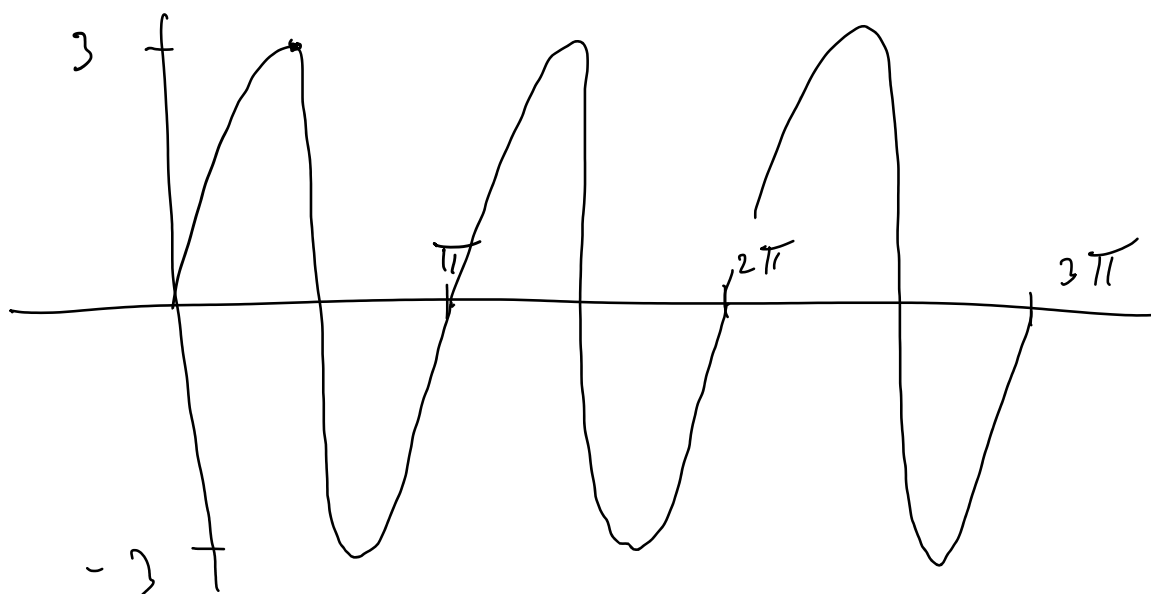
$$u(\pi/2) = 3$$



b)

$$u(t) = 3 \sin(2t)$$

$$\omega = 2 \quad T = \pi \quad f = 1/\pi$$

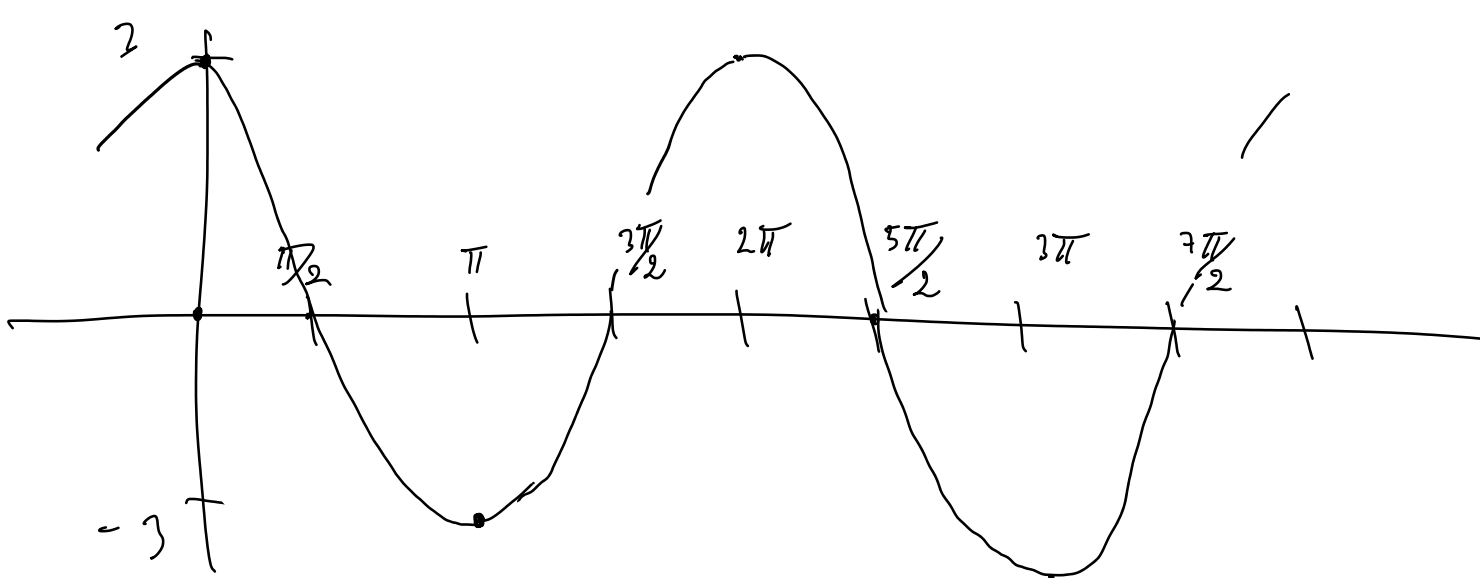


c)

$$u(t) = 3 \sin(t + \pi/2)$$

$$u(0) = 3$$

$$u(\pi) = -3$$



f)

$$u(t) = 3 \sin(2t - \pi/2)$$

$$u(0) = -3$$

$$u(\pi/2) = 3$$

$$u(\pi) = -3$$

