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(a) Representing the complex number  $z = x + jy = |z|e^{j\theta}$  then  $|x| = |z|\cos(\theta)$  and since  $|\cos(\theta)| \leq 1$  then  $|x| \leq |z|$ , the equality holds when  $\theta = 0$  or when  $z = x$ , i.e., it is real.

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Consider a signal

$$x(t) = 4\cos(2\pi t)$$

defined for  $0 < t < 1$ .

For the

following values of

the sampling

period  $T$

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