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Chaparro — Signals and Systems using MATLAB 0.7 0.7 (a) Replacing $z^k = j^k 1 = Ne^{j(\pi/2 + 2\pi k)} = N e^{j\pi/2} e^{j2\pi k}$ we get $z^k = j e^{j2\pi k} = j e^{j2\pi k}$ for any value of $k = 0; \dots; N-1$. (b) Applying the above result we have: For $z^2 = 1 = 1 e^{j0}$ the roots are $z^k = 1 e^{j2\pi k}$, $k = 0; 1$. When $k = 0$, $z^0 = e^{j0} = 1$ and $z^1 = e^{j2\pi} = 1$.

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Chaparro-Akan — Signals and Systems using MATLAB 0.3 0.2 Use Euler's identity to (a) show that (i) $\cos(\pi/2) = \sin(\pi)$; (ii) $\sin(\pi/2) = \cos(\pi)$; (iii) $\cos(\pi) = \sin(\pi + \pi/2)$; (b) to find (i) $\int_0^1 \cos(2\pi t)\sin(2\pi t)dt$; (ii) $\int_0^1 \cos(2\pi t)dt$: Answers: (b) 0 and $1/2$. Solution (a) We have i. $\cos(\pi/2) = 0.5(e^{j(\pi/2)} + e^{-j(\pi/2)}) = j0.5(e^j - e^{-j}) = \sin(\pi)$ ii.

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Chaparro-Akan — Signals and Systems using MATLAB 0.7 0.6 Differential and difference equations — Find the ordinary differential equation relating a current source $i_s(t) = \cos(0t)$ with the current $i_L(t)$ in an inductor, with inductance $L = 1$ Henry, connected in parallel with a resistor of $R = 1$ (see Fig. 3).

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Chaparro Signals and Systems using MATLAB 1.9 Pr. 1.6 (a) The exponentials are defined from $t = 0$ to ∞ so is a decaying exponential, while e^{at} is an increasing exponential. Their sum gives an even and positive function, the hyperbolic cosine, while their difference gives an odd function hyperbolic sine.

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$n_x = 3$, $m = 3$, $x_m = y_n = 1$ so the system is time invariant b

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