Kyle Connelly COSC 360 QUIZ 1 Convert to Polar form 1. Z=4+4j =412e174 2. Z=1, Z=j, Z=-1, Z=-j $Z=1+0j \Rightarrow Z=|e^{j(0)}=(1)$ $Z=0+j \Rightarrow Z=|e^{j\pi j}z$ Z=-1+0j===1e)= Z=0-j=> Z=1e 3. Starting with Z=1, 0 is changing by T12 everytime, or 90°, and the vector only was alongth of I wnit. Convert to rect. form $0=\pi/U \quad \text{Tanco}=\frac{1}{x}$ $1. z=2e^{-1/2}$ $4=x^2+y^2$ $4=x^2+y^2$ 2, 7=5e x 25=x2 7=-5 1. Compute $|V|^2 = (V(V), 3, 0_2 - 0, = \pi, \delta_2 - 0 = 0)$ $|V| = \sqrt{a_1 e^{j \times 1}}^2 + (a_2 e^{j \times 2})^2 \Rightarrow |V|^2 = \sqrt{(a_1 e^{j \times 1})^2 + (a_2 e^{j \times 2})^2}$ $(x)^2 = (a_1 e^{j \times 1})^2 + (a_2 e^{j \times 2})^2$ $|V|^2 = V^*V = \alpha_1 e^{j(2\pi ft + \Phi_2)} + \alpha_2 e^{j(2\pi ft + \Phi_2)}$

(1/W) = 1/41

$$L=O(\overline{z}_2=0)$$

$$h(\omega) = \frac{z_3}{z_1+z_3}$$

$$1 = O(c) = 0$$

$$U_L = O(c) = 0$$

$$V_L = V_L = V_L$$