lab 11.4.1 Week 12 Assume $V_{R}(t) = V_{R} \cos(Wt + \Theta)$ $Z = W = \frac{V_{Q} i \Phi}{I_{Q} i \Theta} = V_{M} e^{i(\Phi - \Theta)}$ $V(t) = U_{X} \left(\frac{100}{1004147}\right) = 2.72 \text{ V}$ (e/m $\Lambda(f) = \Lambda \cos(m f + \emptyset)$ \(\frac{1}{2}\)\(\frac{1}{4}\)\(\fra V: 100 = VR 10 + VID O follesistor 1 1 = 1 100 - 100 VID = Vingo - Vngi0 = Vin - Vngi0 irle = Vr18 > Vin = Vr19 Z = RVin Vr19 I= Vrn 4702 Z = Vin VRB = R(Vin -1) (Ve 18) - ((Vine 10 - 1) we don't know We figure out VReigh from

VRLD= V:n-VLD

Julian, Deivi 1 hHz 380mV 5 kHz 380mV 3 l0 hHz 380mV z= 3.18V lokHz Phase = Tx 300 =220 ps - 240 ps x360= -0.0010 1KH2 Z=470 (4v - 1) 243.72

W)	VL
1k	.2cos (1000+-7.0960)
Sk	. 2 cos (5,000+37.2°)
10K	3.41.

$$V_{R} = \frac{3.18}{Z} \cos(Skt + 36^{\circ})$$