Phasor torm 05H70)=17 <-- \rangle (2) = 8 cos (mt -45°) · 54/0/=17 - V,(+)- 10 cos (wt+45°) ¥ H Thase Aclationships Between Sinusoids The phase of U(H) is 90° higher than the phase of V2(H). In either the time domain or the phasor form, the following terminalogy applies. 12 H) lags V, (+) by 90° 4,(4) leads 42(4) by 90°.

Express each chaser in the Hine domain, in the form of V(t)= Vm cos(wt+0). Let f=1001/2 T Xam Ce

N=7 /180°-45° = 7 /135° V2 = 10/30° V3 = 8 190°

Example Express each phasor in the Hine domain,
In the form of V(t)= Vm cos(wt+0). Let f = 100 Hz
Im 1

12 - 2TF = 2#(100 HZ) W=200TT radians (= 100 Hz) Weed to convert of into be. 1,(+)=7 cos (20011+ + 135°) N3(4) = 8 COS (200TT & +90°) V2(+)=10 cos (200TT + +30°)

V.(H) leads V3(H) by: 1755-90 = 45° | V3(H) lags V1(H) by: 175°-90 = 45° Vi(+) leads vi(t) by: 135°-30° = 105° | V3(t) leads vi(t) by: 90°-30° = 60°