



501 4 Loop 1 mesh epn: -M: COPOSIDO Sam + V1 - 4400 I1 - j2000 I, + j750 I2 = 0 (-470000 - j2000) II # j75012 = 4, (OR) (4+00+j2000)I, + j+50 [, = V, Loop 2 mesh eph: - j 1800 I2 - 500 I2 +870 I2 =0. 170247--j750[, + (370-j1800)[2=0-(2 Solve using Crammer Rule:-  $I_1 = 7.73 L - 20.3^{\circ} mA$   $I_2 = 2.5 4 L - 163.2^{\circ} mA$ V2= 870 I2 = 2.2 L-163.20 V

+ Limer 2-2 6-163-2° = 0.055 (-163.2° o = classer + I good - N+ 12 0-33 (-142.9° N: 3036 1 + , I (00059 + 0061) 0= 010F8+ 01008 - 01 00817-(s) - 0 = (1 (sec) ] = 0 + (107 = 1-Solve univing Commonwork Rule !from " Exact > 5 f. 6 - 1 0 A ... 12.831-31-00-3