81 12V (+) 1000 V,330 A V225-12 KVL in Loop D: 2 Vactive = 2 Vpassive 12V = 121, + 10(1,-12)+61, =) 281, - IOI, = 12 =) 141, -5 I2 = 6 - 1 KVLin Loop @: 2 Valler = 2 Vpossive  $-10(i_2-i_3) = 30(i_2-i_3)$ =) 1011 = 4012 +3013=0 =) 1, = 4i2 to + 3i3=0 -2 KVLin Loop @ & Vourve = & Vpassive -30(13-12) = 2512 + 513 -) 6013 - 3012 =0. -) 2°3 - °2 = 0 -(3) 1) in = 1 is - B Substituting is in @, 1, -41/2 + 3/2 =0 V= 10 (1,-12) = 10(0.3) =) 2i, -5i2=0-5 =) V1 = 3V From O and (3) 14%, -5I/=6 V2= 5(13) (-)21, 05/12=0 = 5(0.1) =) V2= 0.5V 12% = 6 =) |1= 0.5A = 12=0.2A = 13=0.1A