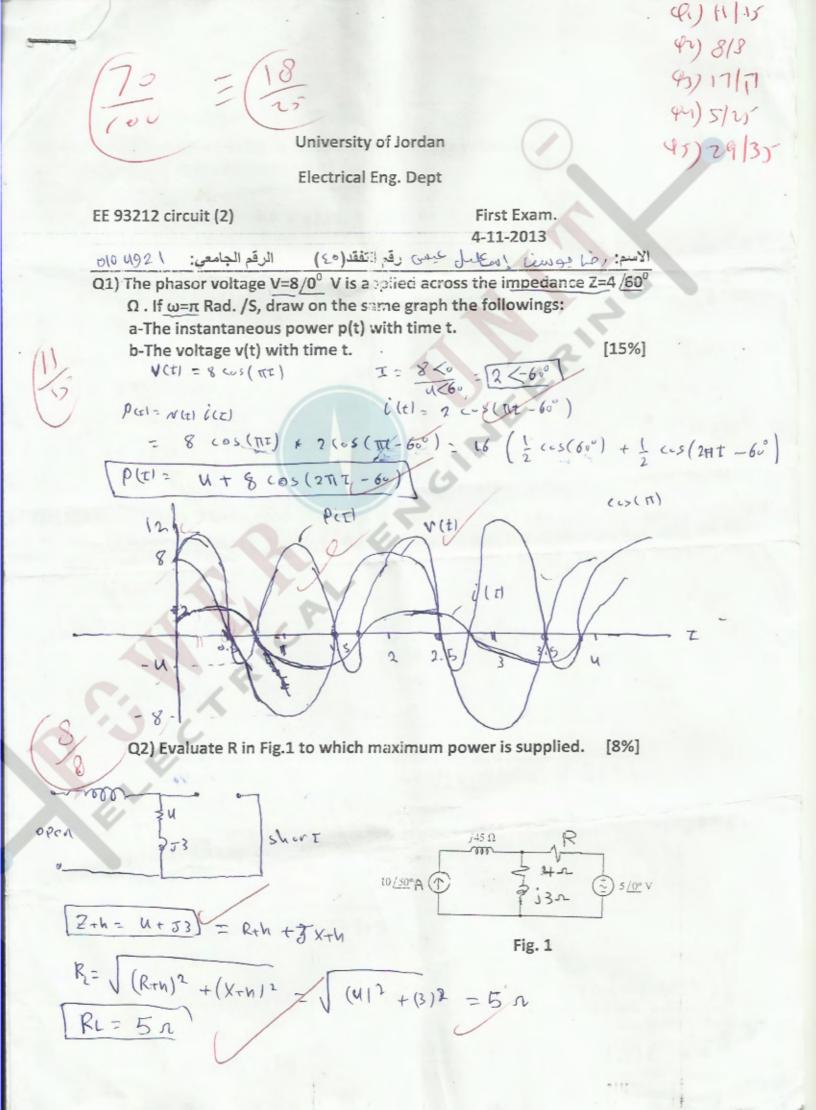
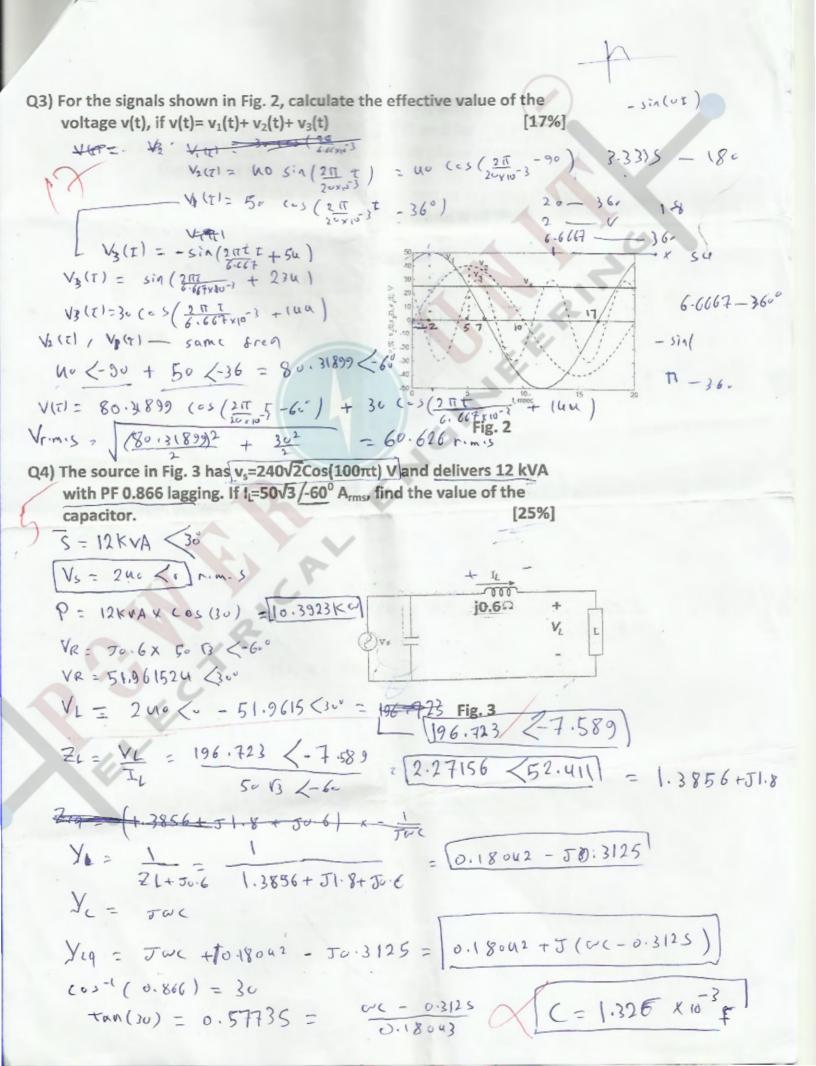
CIRCUITS 2 FIRST EXAM FALL-2013



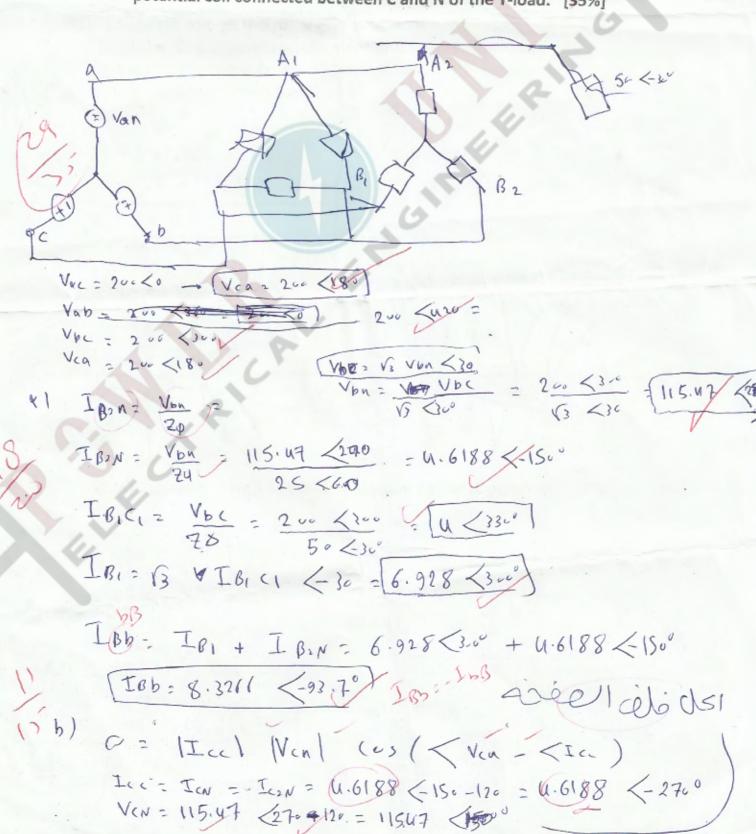




Q5) A balanced Δ -load is connected in parallel with a balanced Y-load. The impedance per phase for Δ is $50/-30^{\circ}$ Ω and for Y is $25/60^{\circ}$ Ω . If $V_{ac}=200/0^{\circ}$ V_{RMS} and assuming positive phase sequence, find:

a-The current IBb.

b-The reading of the wattmeter connected in phase C with its potential coil connected between C and N of the Y-load. [35%]



C = (Ic) * (VCN) (es ((Vac - (21))) = 266.664 cm) W= U.6188 × 115.47 (05 (150 7270) - 266.666 W]