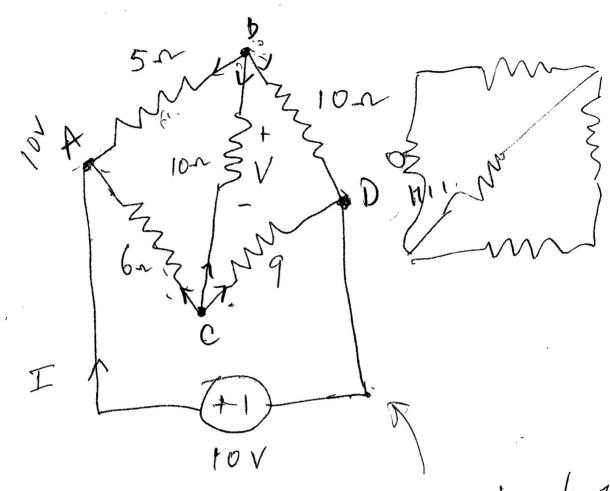
ECE 210 Practice problems-1 Jan 26,2013 1) Find magnitude and angle of Z a) Z = 1 + j2, b) Z = -1 + j2c) Z = -1 - j2, d) Z = 1 - j2 $e)ej\pi$ 2) Find Real and imaginary parts $\frac{7}{4}$ a) $5e^{-j\frac{\pi}{4}}$ b) $2e^{-j\frac{\pi}{4}}$ c) $e^{-j\frac{\pi}{4}}$

a) $\sqrt{3+j4}$ e) $(3-j4)^{3}$ f) $\frac{2+j3}{3+j4}$ g) (2+j3)(3+j4)j $\pi/4$ h) $(2+j3)e^{j\frac{\pi}{3}}$ i) $\frac{e}{3+j4}$

3) Find equivalent R, Larc Fer Following Combinations 3 h

_) 2 Find equivalent impedance ? Find I and V for the circuits 5 10.)-10310~ Write node equations and so he 36-2 + V=

5 6)



Write node equations and holve to find I

Find $V_c(t)$ 0.5h imp2Srj4

5cs(10t) + 0.1f.

4