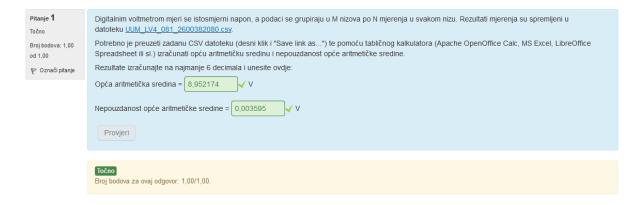
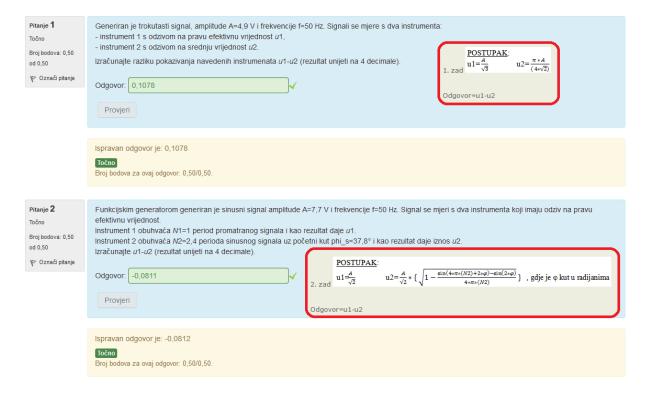
LAB_04

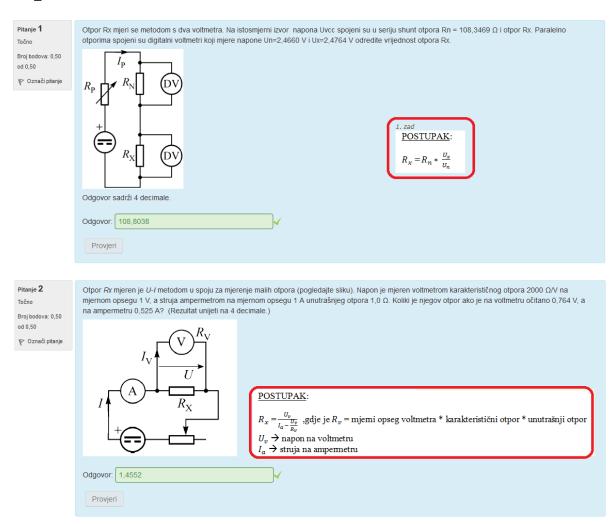


Postupak s rjesenom datotekom u excelu se nalazi na materijalima.

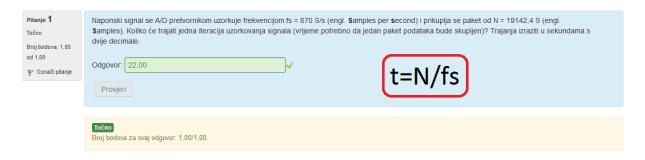
LAB_05



LAB_06

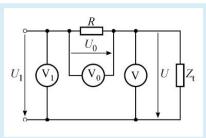


LAB_07



LAB_08





$$\cos \varphi = \frac{{U_1}^2 - {U_0}^2 - U^2}{2U_0 U}$$

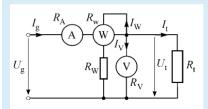
Snaga tereta mjeri se s tri voltmetra kako je prikazano na slici. Izračunajte faktor snage $cos(\phi)$ ako je zadano: U1=5,2 V, U0=3,0 V, U=2,9 V i R=8,0 Ω . Faktor snage upisati s pet decimala.

Odgovor: 0,55344

Provjeri

Pitanje 2
Točno
Broj bodova: 0,50
od 0,50

V Označi pitanje



$$\cos \varphi_{\rm t} = \frac{P_{\rm W} - \left(\frac{{U_{\rm V}}^2}{R_{\rm V}} + \frac{{U_{\rm V}}^2}{R_{\rm W}}\right)}{U_{\rm V} \left(I_{\rm A} - \frac{U_{\rm V}}{R_{\rm W}} - \frac{U_{\rm V}}{R_{\rm V}}\right)}_{\rm PW=P;\; Uv=Ut;\; IA=Ig}$$

Odredite faktor snage tereta ukoliko je vatmetrom, čija je naponska grana spojena prema teretu, izmjerena snaga P =50 W, voltmetrom je izmjeren napon na teretu Ut= 15,6 V, a ampermetrom struja izvora Ig= 5,2 A. Otpor naponske grane vatmetra Rw= 1136236 Ω , a otpor voltmetra Rv=1185919 Ω . Faktor snage upisati s tri decimale.

Odgovor: 0,61636

Provjeri