

LAPORAN PRAKTIKUM KE-5

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Kelas:
TI-4Axioo

Mata Kuliah:
Metode Numerik

Dosen Pengampu:
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**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN
TEKNOLOGI
POLITEKNIK NEGERI BANJARMASIN
JURUSAN TEKNIK ELEKTRO
PROGRAM STUDI D3 TEKNIK INFORMATIKA**

1.

Soal1 (Protected View) - Excel

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

GET GENUINE OFFICE Your license isn't genuine, and you may be a victim of software counterfeiting. Avoid interruption and keep your files safe with genuine Office today. Get genuine Office Learn more

Selesaikan persamaan : $x + \exp(x) = 0$ dengan range $x = [-0.6, -0.5]$ dengan error = 0.001

Xb dan Xa didapat dari hasil metode tabular

Iterasi	xb	xa	f(xb)	f(xa)	xc	f(xc)	f(xb)*f(xc)	range baru	abs(xa-xb)	Ket
1	-0.6000	-0.5	-0.0512	0.1065	-0.550	-0.0289	-0.001380	xa=xc	0.1000	Lanjutkan
2	-0.6000	-0.55	-0.0512	0.0269	-0.575	-0.0123	0.000629	xb=xc	0.0500	Lanjutkan
3	-0.5750	-0.55	-0.0123	0.0269	-0.563	0.0073	-0.000090	xa=xc	0.0250	Lanjutkan
4	-0.5750	-0.5625	-0.0123	0.0073	-0.569	0.0025	-0.000031	xb=xc	0.0125	Lanjutkan
5	-0.5688	-0.5625	-0.0025	0.0073	-0.566	0.0024	-0.000006	xa=xc	0.0062	Lanjutkan
6	-0.5688	-0.56569	-0.0025	0.0024	-0.567	-0.0001	0.000000	xb=xc	0.0031	Lanjutkan
7	-0.5672	-0.56569	-0.0001	0.0024	-0.566	0.0012	0.000000	xa=xc	0.0016	Lanjutkan
8	-0.5672	-0.56641	-0.0001	0.0012	-0.567	0.0005	0.000000	xb=xc	0.0008	Berhenti

Akar = -0.567

selebihnya copy paste dari baris diatasnya

2.

Genapp - Excel

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Selesaikan persamaan : $f(x) = x + \exp(x) = 0$, dengan range $x = [-0.5, -0.31]$ dengan error = 0.001

Xb dan Xa didapat dari hasil metode tabular

Iterasi	xb	xa	f(xb)	f(xa)	xc	f(xc)	f(xb)*f(xc)	range baru	abs(xa-xb)	Ket
1	-0.5000	-0.3	-0.6435	0.2529	-0.405	-0.1531	0.098546	xb=xc	0.1900	Lanjutkan
2	-0.4050	-0.31	0.2620	0.4234	-0.358	0.2419	0.089576	xb=xc	0.0950	Lanjutkan
3	-0.3575	-0.31	0.3419	0.4234	-0.334	0.2825	0.130780	xb=xc	0.0475	Lanjutkan
4	-0.3338	-0.31	0.3825	0.4234	-0.322	0.4029	0.154108	xb=xc	0.0238	Lanjutkan
5	-0.3219	-0.31	0.4029	0.4234	-0.316	0.4132	0.166471	xb=xc	0.0119	Lanjutkan
6	-0.3150	-0.31	0.4132	0.4234	-0.313	0.4183	0.172830	xb=xc	0.0059	Lanjutkan
7	-0.3130	-0.31	0.4183	0.4234	-0.311	0.4209	0.176054	xb=xc	0.0030	Lanjutkan
8	-0.3115	-0.31	0.4209	0.4234	-0.311	0.4222	0.177677	xb=xc	0.0015	Lanjutkan
9	-0.3107	-0.31	0.4222	0.4234	-0.310	0.4228	0.178491	xb=xc	0.0007	Berhenti

Akar = -0.310

selebihnya copy paste dari baris diatasnya