

Facultad de Ingeniería Mecánica y Eléctrica Unidad Torreón

Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	14137625
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JESUS EMMANUEL MORALES MENUIOLA		

- 1. (a) $I_{Z1} = (0.25613 j0.40578) A$
 - (b) $I_{Z2} = (-0.20491 + j0.32462) A$
 - (c) $I_{Z3} = (0.45374 + j0.3999) A$
 - (d) $I_{Z4} = (0.32462 + j0.20491) A$
 - (e) $I_{Z5} = (0.18035 + j0.11384) A$
 - (f) $I_{Z6} = (-0.45374 j0.3999) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (2.25 + j3) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	14121732
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JOEL GERARDO AGUERO LLANAS		

- 1. (a) $I_{Z1} = (0.1706 + j0.017157) A$
 - (b) $I_{Z2} = (-0.094775 j0.0095319) A$
 - (c) $I_{Z3} = (-0.13097 + j0.54072) A$
 - (d) $I_{Z4} = (-0.012255 + j0.12185) A$
 - (e) $I_{Z5} = (-0.042893 + j0.42649) A$
 - (f) $I_{Z6} = (0.13097 j0.54072) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (3 + j5.25) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	14124427
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JERSON CHAVEZ ORTIZ		

- 1. (a) $I_{Z1} = (0.17245 j0.010423) A$
 - (b) $I_{Z2} = (-0.34489 + j0.020845) A$
 - (c) $I_{Z3} = (0.20223 + j0.48228) A$
 - (d) $I_{Z4} = (0.0089337 + j0.14781) A$
 - (e) $I_{Z5} = (0.020845 + j0.34489) A$
 - (f) $I_{Z6} = (-0.20223 j0.48228) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (5.25 + j1.5) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	14156040
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	LUIS ANTNONIO FERNENDEZ CARRASCO		

- 1. (a) $I_{Z1} = (0.14595 j0.029486) A$
 - (b) $I_{Z2} = (-0.23352 + j0.047178) A$
 - (c) $I_{Z3} = (0.1531 + j0.30665) A$
 - (d) $I_{Z4} = (0.039315 + j0.1946) A$
 - (e) $I_{Z5} = (0.02621 + j0.12973) A$
 - (f) $I_{Z6} = (-0.1531 j0.30665) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (6 + j4.5) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	14156037
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	MICHAEL MURILLO MENDEZ		

- 1. (a) $I_{Z1} = (0.044331 + j0.048022) A$
 - (b) $I_{Z2} = (-0.066496 j0.072034) A$
 - (c) $I_{Z3} = (-0.25568 + j0.2805) A$
 - (d) $I_{Z4} = (-0.2161 + j0.19949) A$
 - (e) $I_{Z5} = (-0.061743 + j0.056997) A$
 - (f) $I_{Z6} = (0.25568 j0.2805) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (2.25 + j6.75) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	11073892
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JOSUE AMADOR SIFUENTES		

- 1. (a) $I_{Z1} = (0.2117 j0.1372) A$
 - (b) $I_{Z2} = (-0.31755 + j0.2058) A$
 - (c) $I_{Z3} = (0.55175 + j0.61942) A$
 - (d) $I_{Z4} = (0.3087 + j0.47632) A$
 - (e) $I_{Z5} = (0.1372 + j0.2117) A$
 - (f) $I_{Z6} = (-0.55175 j0.61942) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (4.5 + j2.25) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	11268436
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	EDUARDO ZALDIVAR MARTINEZ		

- 1. (a) $I_{Z1} = (0.11078 + j0.048797) A$
 - (b) $I_{Z2} = (-0.38773 \text{j}0.17079) \text{ A}$
 - (c) $I_{Z3} = (0.12324 + j0.47095) A$
 - (d) $I_{Z4} = (-0.068315 + j0.15509) A$
 - (e) $I_{Z5} = (-0.085394 + j0.19387) A$
 - (f) $I_{Z6} = (-0.12324 j0.47095) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (3 + j2.25) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	14140390
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	LUIS DAVID MARENTES REYES		

- 1. (a) $I_{Z1} = (0.097378 j0.16643) A$
 - (b) $I_{Z2} = (-0.11129 + j0.1902) A$
 - (c) $I_{Z3} = (0.37054 + j0.18489) A$
 - (d) $I_{Z4} = (0.1902 + j0.11129) A$
 - (e) $I_{Z5} = (0.16643 + j0.097378) A$
 - (f) $I_{Z6} = (-0.37054 j0.18489) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (2.25 + j6) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	12068799
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JESUS ANTONIO ROBLESREYES		

- 1. (a) $I_{Z1} = (0.10266 j0.23484) A$
 - (b) $I_{Z2} = (-0.25664 + j0.58709) A$
 - (c) $I_{Z3} = (0.61527 j0.15061) A$
 - (d) $I_{Z4} = (0.16774 + j0.073325) A$
 - (e) $I_{Z5} = (0.29355 + j0.12832) A$
 - (f) $I_{Z6} = (-0.61527 + j0.15061) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (6.75 + j1.5) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	14150725
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	LILIANA VERA GLZ		

- 1. (a) $I_{Z1} = (0.45304 j0.34389) A$
 - (b) $I_{Z2} = (-0.33978 + j0.25792) A$
 - (c) $I_{Z3} = (0.25929 + j0.57677) A$
 - (d) $I_{Z4} = (0.11463 + j0.15101) A$
 - (e) $I_{Z5} = (0.25792 + j0.33978) A$
 - (f) $I_{Z6} = (-0.25929 \text{j}0.57677) \text{ A}$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (3 + j4.5) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	14125016
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	DAVID OTHONIEL SALDIVAR PEREZ		

- 1. (a) $I_{Z1} = (0.25448 j0.0076487) A$
 - (b) $I_{Z2} = (-0.12724 + j0.0038244) A$
 - (c) $I_{Z3} = (-0.11692 + j0.34738) A$
 - (d) $I_{Z4} = (0.0045892 + j0.15269) A$
 - (e) $I_{Z5} = (0.0057365 + j0.19086) A$
 - (f) $I_{Z6} = (0.11692 j0.34738) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (1.5 + j5.25) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	1205596
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	ALBERTO VAZQUEZ MEDINA		

- 1. (a) $I_{Z1} = (0.27463 j0.015492) A$
 - (b) $I_{Z2} = (-0.19616 + j0.011066) A$
 - (c) $I_{Z3} = (-0.055872 + j0.40492) A$
 - (d) $I_{Z4} = (0.0096826 + j0.17164) A$
 - (e) $I_{Z5} = (0.01291 + j0.22886) A$
 - (f) $I_{Z6} = (0.055872 j0.40492) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (4.5 + j5.25) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	12666518
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	SAMUEL ROSAS GONZALEZ		

- 1. (a) $I_{Z1} = (0.20863 j0.087843) A$
 - (b) $I_{Z2} = (-0.14902 + j0.062745) A$
 - (c) $I_{Z3} = (0.09098 + j0.38275) A$
 - (d) $I_{Z4} = (0.087843 + j0.20863) A$
 - (e) $I_{Z5} = (0.062745 + j0.14902) A$
 - (f) $I_{Z6} = (-0.09098 j0.38275) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (6.75 + j5.25) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	12064655
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	EDSON ORLANDONAVARRO RAMIREZ		

- 1. (a) $I_{Z1} = (0.11547 + j0.038462) A$
 - (b) $I_{Z2} = (-0.089808 j0.029915) A$
 - (c) $I_{Z3} = (-0.12288 + j0.28333) A$
 - (d) $I_{Z4} = (-0.029915 + j0.089808) A$
 - (e) $I_{Z5} = (-0.067308 + j0.20207) \text{ A}$
 - (f) $I_{Z6} = (0.12288 j0.28333) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (3.75 + j3) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	11126870
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JUAN GAEL GONZALEZ RODRIGUEZ		

- 1. (a) $I_{Z1} = (0.21418 j0.39192) A$
 - (b) $I_{Z2} = (-0.16064 + j0.29394) A$
 - (c) $I_{Z3} = (0.46902 + j0.38356) A$
 - (d) $I_{Z4} = (0.26128 + j0.14279) A$
 - (e) $I_{Z5} = (0.26128 + j0.14279) A$
 - (f) $I_{Z6} = (-0.46902 j0.38356) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (3 + j1.5) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	14155580
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	LUIS ALEJANDRO URBINA GONZALEZ		

- 1. (a) $I_{Z1} = (0.15824 j0.025313) A$
 - (b) $I_{Z2} = (-0.47471 + j0.07594) A$
 - (c) $I_{Z3} = (0.37614 + j0.32236) A$
 - (d) $I_{Z4} = (0.03797 + j0.23736) A$
 - (e) $I_{Z5} = (0.021697 + j0.13563) A$
 - (f) $I_{Z6} = (-0.37614 j0.32236) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (3.75 + j3.75) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	4/10/2016
Exam / Homework	Homework 3: Nodal and Mesh analysis	Registration #	14629184
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JOSE WALDO QUINTANA ARANDA		

- 1. (a) $I_{Z1} = (0.093331 j0.23654) A$
 - (b) $I_{Z2} = (-0.155555 + j0.39423) A$
 - (c) $I_{Z3} = (0.48931 + j0.010821) A$
 - (d) $I_{Z4} = (0.29567 + j0.11666) A$
 - (e) $I_{Z5} = (0.13141 + j0.05185) A$
 - (f) $I_{Z6} = (-0.48931 j0.010821) A$
- 2. (a) $V_{RMS} = 6.8159 \,\mathrm{V}$
 - (b) $V_{ARV} = 6.2073 \,\text{V}$
- 3. $Z_{eq} = (1.5 + j6.75) \Omega$