



# Universidad Autónoma de Coahuila

## Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>14137625</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>JESUS EMMANUEL MORALES MENUIOLA</b>		

### Answers

- $I_{Z1} = (0.256\ 13 - j0.405\ 78)\text{ A}$
  - $I_{Z2} = (-0.204\ 91 + j0.324\ 62)\text{ A}$
  - $I_{Z3} = (0.453\ 74 + j0.3999)\text{ A}$
  - $I_{Z4} = (0.324\ 62 + j0.204\ 91)\text{ A}$
  - $I_{Z5} = (0.180\ 35 + j0.113\ 84)\text{ A}$
  - $I_{Z6} = (-0.453\ 74 - j0.3999)\text{ A}$
- $V_{RMS} = 6.8159\text{ V}$
  - $V_{ARV} = 6.2073\text{ V}$
- $Z_{eq} = (2.25 + j3)\ \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>14121732</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>JOEL GERARDO AGUERO LLANAS</b>		

### Answers

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



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>14124427</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>JERSON CHAVEZ ORTIZ</b>		

## Answers

- $I_{Z1} = (0.172\ 45 - j0.010\ 423)\ \text{A}$
  - $I_{Z2} = (-0.344\ 89 + j0.020\ 845)\ \text{A}$
  - $I_{Z3} = (0.202\ 23 + j0.482\ 28)\ \text{A}$
  - $I_{Z4} = (0.008\ 933\ 7 + j0.147\ 81)\ \text{A}$
  - $I_{Z5} = (0.020\ 845 + j0.344\ 89)\ \text{A}$
  - $I_{Z6} = (-0.202\ 23 - j0.482\ 28)\ \text{A}$
- $V_{RMS} = 6.8159\ \text{V}$
  - $V_{ARV} = 6.2073\ \text{V}$
- $Z_{eq} = (5.25 + j1.5)\ \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>14156040</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>LUIS ANTONIO FERNENDEZ CARRASCO</b>		

## Answers

- $I_{Z1} = (0.145\,95 - j0.029\,486)\text{ A}$
  - $I_{Z2} = (-0.233\,52 + j0.047\,178)\text{ A}$
  - $I_{Z3} = (0.1531 + j0.306\,65)\text{ A}$
  - $I_{Z4} = (0.039\,315 + j0.1946)\text{ A}$
  - $I_{Z5} = (0.026\,21 + j0.129\,73)\text{ A}$
  - $I_{Z6} = (-0.1531 - j0.306\,65)\text{ A}$
- $V_{RMS} = 6.8159\text{ V}$
  - $V_{ARV} = 6.2073\text{ V}$
- $Z_{eq} = (6 + j4.5)\,\Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>14156037</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>MICHAEL MURILLO MENDEZ</b>		

## Answers

- $I_{Z1} = (0.044\,331 + j0.048\,022) \text{ A}$
  - $I_{Z2} = (-0.066\,496 - j0.072\,034) \text{ A}$
  - $I_{Z3} = (-0.255\,68 + j0.2805) \text{ A}$
  - $I_{Z4} = (-0.2161 + j0.199\,49) \text{ A}$
  - $I_{Z5} = (-0.061\,743 + j0.056\,997) \text{ A}$
  - $I_{Z6} = (0.255\,68 - j0.2805) \text{ A}$
- $V_{RMS} = 6.8159 \text{ V}$
  - $V_{ARV} = 6.2073 \text{ V}$
- $Z_{eq} = (2.25 + j6.75) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>11073892</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>JOSUE AMADOR SIFUENTES</b>		

## Answers

- $I_{Z1} = (0.2117 - j0.1372) \text{ A}$
  - $I_{Z2} = (-0.31755 + j0.2058) \text{ A}$
  - $I_{Z3} = (0.55175 + j0.61942) \text{ A}$
  - $I_{Z4} = (0.3087 + j0.47632) \text{ A}$
  - $I_{Z5} = (0.1372 + j0.2117) \text{ A}$
  - $I_{Z6} = (-0.55175 - j0.61942) \text{ A}$
- $V_{RMS} = 6.8159 \text{ V}$
  - $V_{ARV} = 6.2073 \text{ V}$
- $Z_{eq} = (4.5 + j2.25) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>11268436</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>EDUARDO ZALDIVAR MARTINEZ</b>		

### Answers

- $I_{Z1} = (0.110\,78 + j0.048\,797)\text{ A}$
  - $I_{Z2} = (-0.387\,73 - j0.170\,79)\text{ A}$
  - $I_{Z3} = (0.123\,24 + j0.470\,95)\text{ A}$
  - $I_{Z4} = (-0.068\,315 + j0.155\,09)\text{ A}$
  - $I_{Z5} = (-0.085\,394 + j0.193\,87)\text{ A}$
  - $I_{Z6} = (-0.123\,24 - j0.470\,95)\text{ A}$
- $V_{RMS} = 6.8159\text{ V}$
  - $V_{ARV} = 6.2073\text{ V}$
- $Z_{eq} = (3 + j2.25)\,\Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>14140390</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>LUIS DAVID MARENTES REYES</b>		

### Answers

- $I_{Z1} = (0.097\,378 - j0.166\,43)\,\text{A}$
  - $I_{Z2} = (-0.111\,29 + j0.1902)\,\text{A}$
  - $I_{Z3} = (0.370\,54 + j0.184\,89)\,\text{A}$
  - $I_{Z4} = (0.1902 + j0.111\,29)\,\text{A}$
  - $I_{Z5} = (0.166\,43 + j0.097\,378)\,\text{A}$
  - $I_{Z6} = (-0.370\,54 - j0.184\,89)\,\text{A}$
- $V_{RMS} = 6.8159\,\text{V}$
  - $V_{ARV} = 6.2073\,\text{V}$
- $Z_{eq} = (2.25 + j6)\,\Omega$





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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>12068799</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>JESUS ANTONIO ROBLESREYES</b>		

### Answers

- $I_{Z1} = (0.102\ 66 - j0.234\ 84)\text{ A}$
  - $I_{Z2} = (-0.256\ 64 + j0.587\ 09)\text{ A}$
  - $I_{Z3} = (0.615\ 27 - j0.150\ 61)\text{ A}$
  - $I_{Z4} = (0.167\ 74 + j0.073\ 325)\text{ A}$
  - $I_{Z5} = (0.293\ 55 + j0.128\ 32)\text{ A}$
  - $I_{Z6} = (-0.615\ 27 + j0.150\ 61)\text{ A}$
- $V_{RMS} = 6.8159\text{ V}$
  - $V_{ARV} = 6.2073\text{ V}$
- $Z_{eq} = (6.75 + j1.5)\ \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>14150725</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>LILIANA VERA GLZ</b>		

### Answers

- $I_{Z1} = (0.453\,04 - j0.343\,89)\text{ A}$
  - $I_{Z2} = (-0.339\,78 + j0.257\,92)\text{ A}$
  - $I_{Z3} = (0.259\,29 + j0.576\,77)\text{ A}$
  - $I_{Z4} = (0.114\,63 + j0.151\,01)\text{ A}$
  - $I_{Z5} = (0.257\,92 + j0.339\,78)\text{ A}$
  - $I_{Z6} = (-0.259\,29 - j0.576\,77)\text{ A}$
- $V_{RMS} = 6.8159\text{ V}$
  - $V_{ARV} = 6.2073\text{ V}$
- $Z_{eq} = (3 + j4.5)\,\Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>14125016</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>DAVID OTHONIEL SALDIVAR PEREZ</b>		

### Answers

- $I_{Z1} = (0.254\,48 - j0.007\,648\,7) \text{ A}$
  - $I_{Z2} = (-0.127\,24 + j0.003\,824\,4) \text{ A}$
  - $I_{Z3} = (-0.116\,92 + j0.347\,38) \text{ A}$
  - $I_{Z4} = (0.004\,589\,2 + j0.152\,69) \text{ A}$
  - $I_{Z5} = (0.005\,736\,5 + j0.190\,86) \text{ A}$
  - $I_{Z6} = (0.116\,92 - j0.347\,38) \text{ A}$
- $V_{RMS} = 6.8159 \text{ V}$
  - $V_{ARV} = 6.2073 \text{ V}$
- $Z_{eq} = (1.5 + j5.25) \Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>1205596</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>ALBERTO VAZQUEZ MEDINA</b>		

### Answers

- $I_{Z1} = (0.274\,63 - j0.015\,492)\text{ A}$
  - $I_{Z2} = (-0.196\,16 + j0.011\,066)\text{ A}$
  - $I_{Z3} = (-0.055\,872 + j0.404\,92)\text{ A}$
  - $I_{Z4} = (0.009\,682\,6 + j0.171\,64)\text{ A}$
  - $I_{Z5} = (0.012\,91 + j0.228\,86)\text{ A}$
  - $I_{Z6} = (0.055\,872 - j0.404\,92)\text{ A}$
- $V_{RMS} = 6.8159\text{ V}$
  - $V_{ARV} = 6.2073\text{ V}$
- $Z_{eq} = (4.5 + j5.25)\,\Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>12666518</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>SAMUEL ROSAS GONZALEZ</b>		

### Answers

- $I_{Z1} = (0.208\,63 - j0.087\,843)\,\text{A}$
  - $I_{Z2} = (-0.149\,02 + j0.062\,745)\,\text{A}$
  - $I_{Z3} = (0.090\,98 + j0.382\,75)\,\text{A}$
  - $I_{Z4} = (0.087\,843 + j0.208\,63)\,\text{A}$
  - $I_{Z5} = (0.062\,745 + j0.149\,02)\,\text{A}$
  - $I_{Z6} = (-0.090\,98 - j0.382\,75)\,\text{A}$
- $V_{RMS} = 6.8159\,\text{V}$
  - $V_{ARV} = 6.2073\,\text{V}$
- $Z_{eq} = (6.75 + j5.25)\,\Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>12064655</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>EDSON ORLANDONAVARRO RAMIREZ</b>		

### Answers

- $I_{Z1} = (0.115\,47 + j0.038\,462)\,\text{A}$
  - $I_{Z2} = (-0.089\,808 - j0.029\,915)\,\text{A}$
  - $I_{Z3} = (-0.122\,88 + j0.283\,33)\,\text{A}$
  - $I_{Z4} = (-0.029\,915 + j0.089\,808)\,\text{A}$
  - $I_{Z5} = (-0.067\,308 + j0.202\,07)\,\text{A}$
  - $I_{Z6} = (0.122\,88 - j0.283\,33)\,\text{A}$
- $V_{RMS} = 6.8159\,\text{V}$
  - $V_{ARV} = 6.2073\,\text{V}$
- $Z_{eq} = (3.75 + j3)\,\Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>11126870</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>JUAN GAEL GONZALEZ RODRIGUEZ</b>		

## Answers

- $I_{Z1} = (0.214\,18 - j0.391\,92)\text{ A}$
  - $I_{Z2} = (-0.160\,64 + j0.293\,94)\text{ A}$
  - $I_{Z3} = (0.469\,02 + j0.383\,56)\text{ A}$
  - $I_{Z4} = (0.261\,28 + j0.142\,79)\text{ A}$
  - $I_{Z5} = (0.261\,28 + j0.142\,79)\text{ A}$
  - $I_{Z6} = (-0.469\,02 - j0.383\,56)\text{ A}$
- $V_{RMS} = 6.8159\text{ V}$
  - $V_{ARV} = 6.2073\text{ V}$
- $Z_{eq} = (3 + j1.5)\,\Omega$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>14155580</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>LUIS ALEJANDRO URBINA GONZALEZ</b>		

### Answers

- $I_{Z1} = (0.158\,24 - j0.025\,313)\text{ A}$
  - $I_{Z2} = (-0.474\,71 + j0.075\,94)\text{ A}$
  - $I_{Z3} = (0.376\,14 + j0.322\,36)\text{ A}$
  - $I_{Z4} = (0.037\,97 + j0.237\,36)\text{ A}$
  - $I_{Z5} = (0.021\,697 + j0.135\,63)\text{ A}$
  - $I_{Z6} = (-0.376\,14 - j0.322\,36)\text{ A}$
- $V_{RMS} = 6.8159\text{ V}$
  - $V_{ARV} = 6.2073\text{ V}$
- $Z_{eq} = (3.75 + j3.75)\,\Omega$





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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	7/10/2016
Exam / Homework	Exam 1 (Max time: One and half hours)	Registration #	<b>14629184</b>
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>JOSE WALDO QUINTANA ARANDA</b>		

### Answers

- $I_{Z1} = (0.093\,331 - j0.236\,54)\text{ A}$
  - $I_{Z2} = (-0.155\,55 + j0.394\,23)\text{ A}$
  - $I_{Z3} = (0.489\,31 + j0.010\,821)\text{ A}$
  - $I_{Z4} = (0.295\,67 + j0.116\,66)\text{ A}$
  - $I_{Z5} = (0.131\,41 + j0.051\,85)\text{ A}$
  - $I_{Z6} = (-0.489\,31 - j0.010\,821)\text{ A}$
- $V_{RMS} = 6.8159\text{ V}$
  - $V_{ARV} = 6.2073\text{ V}$
- $Z_{eq} = (1.5 + j6.75)\,\Omega$