

Facultad de Ingeniería Mecánica y Eléctrica Unidad Torreón

Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	14137625
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JESUS EMMANUEL MORALES MENUIOLA		

- 1. (a) 297 + 908j
 - (b) 63.0328 + 22.3607j
 - (c) 6.8276 + 6.069j
 - (d) 1.0265 + 0.50387j
- 2. 67.5Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.10085 0.23888j) A
 - ii. $V_R = (9.076\,83 21.4993\mathrm{j})\,\mathrm{V}$
 - iii. $V_L = (72.0449 + 30.4167j) V$
 - iv. $V_C = (-21.1217 8.91742j) V$
 - v. $P_R = (-4.2204 4.3366j) W$
 - vi. $P_L = (14.532 14.1425j) W$
 - vii. $P_C = (-4.2604 + 4.1462j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	14121732
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JOEL GERARDO AGUERO LLANAS		

- 1. (a) -142 65j
 - (b) -26 + 51j
 - (c) 2.4779 + 5.1681j
 - (d) 0.16837 + 0.51818j
- $2.7.5\Omega$
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.096035 0.38838j) A
 - ii. $V_R = (2.88104 11.6513j) V$
 - iii. $V_L = (58.5656 + 14.4817j) \,\mathrm{V}$
 - iv. $V_C = (-11.4466 2.83045j) V$
 - v. $P_R = (-4.2484 2.2379j) W$
 - vi. $P_L = (11.2487 21.3547j) W$
 - vii. $P_C = (-2.1985 + 4.1738j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	14124427
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JERSON CHAVEZ ORTIZ		

- 1. (a) -1001 + 664j
 - (b) -3.494118 + 116.2235j
 - (c) 3.0333 + 8.5667j
 - (d) 0.76524 + 0.89555j
- $2. 12.5 \Omega$
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.39879 0.61048j) A
 - ii. $V_R = (11.9637 18.3144j) V$
 - iii. $V_L = (46.0291 + 30.0679j) V$
 - iv. $V_C = (-17.9928 11.7535j) V$
 - v. $P_R = (-6.4096 14.6071j) W$
 - vi. $P_L = (36.7118 16.1091j) W$
 - vii. $P_C = (-14.3506 + 6.29704j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	14156040
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	LUIS ANTNONIO FERNENDEZ CARRASCO		

- 1. (a) -835 + 88j
 - (b) -33.2787 + 64.9344j
 - (c) 6.4634 + 6.1707j
 - (d) 0.5686 + 0.90601j
- $2. 10 \Omega$
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.082454 0.27505j) A
 - ii. $V_R = (2.4736 8.2516j) V$
 - iii. $V_L = (51.8465 + 15.5421j) V$
 - iv. $V_C = (-24.3202 7.2905j) V$
 - v. $P_R = (-2.0657 1.3608j) W$
 - vi. $P_L = (8.54987 12.9791j) W$
 - vii. $P_C = (-4.0106 + 6.0882j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	14156037
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	MICHAEL MURILLO MENDEZ		

- 1. (a) -432 + 432j
 - (b) 63.6923 + 66.4615j
 - (c) 4.7765 + 6.4941j
 - (d) 0.59986 + 0.73188j
- 2. 8.3333Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.07466 0.33746j) A
 - ii. $V_R = (3.73302 16.8732j) V$
 - iii. $V_L = (89.0549 + 19.7024j) V$
 - iv. $V_C = (-12.7879 2.82919j) V$
 - v. $P_R = (-5.4154 2.5195j) W$
 - vi. $P_L = (13.2978 28.5819j) W$
 - vii. $P_C = (-1.9095 + 4.1042j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	11073892
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JOSUE AMADOR SIFUENTES		

- 1. (a) -72 + 368j
 - (b) 56.4 + 27.2j
 - (c) 3.3103 + 4.2759j
 - (d) 0.62868 + 0.50595j
- 2. 26.6667Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.10098 0.20073j) A
 - ii. $V_R = (8.07873 16.0587j) V$
 - iii. $V_L = (37.8375 + 19.0351j) \,\mathrm{V}$
 - iv. $V_C = (-5.9163 2.9763j) V$
 - v. $P_R = (-2.4077 3.2434j) W$
 - vi. $P_L = (7.642 5.6731j) W$
 - vii. $P_C = (-1.1949 + 0.88704j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	11268436
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	EDUARDO ZALDIVAR MARTINEZ		

- 1. (a) -936 + 352j
 - (b) -37.16923 + 110.9538j
 - (c) 7.9888 + 4.382j
 - (d) 0.65874 + 0.86917j
- 2.35Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.17454 0.1393j) A
 - ii. $V_R = (12.2178 9.750\,96\mathrm{j})\,\mathrm{V}$
 - iii. $V_L = (26.2573 + 32.9001j) V$
 - iv. $V_C = (-18.4752 23.1492j) V$
 - v. $P_R = (0.77421 3.4039j) W$
 - vi. $P_L = (9.1659 + 2.0848j) W$
 - vii. $P_C = (-6.4493 1.4669j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	14140390
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	LUIS DAVID MARENTES REYES		

- 1. (a) 154 + 414j
 - (b) 36.2162 + 15.2973j
 - (c) 6.2941 + 6.8235j
 - (d) 0.80022 + 0.37305j
- 2. 11.6667Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.10152 0.21841j) A
 - ii. $V_R = (7.10639 15.289j) V$
 - iii. $V_L = (41.1702 + 19.136j) \,\mathrm{V}$
 - iv. $V_C = (-8.2766 3.847j) V$
 - v. $P_R = (-2.6179 3.1043j) W$
 - vi. $P_L = (8.35919 7.0495j) W$
 - vii. $P_C = (-1.6805 + 1.4172j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	12068799
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JESUS ANTONIO ROBLESREYES		

- 1. (a) -936 + 352j
 - (b) -23.3425 + 70.2466j
 - (c) 4.5 + 7.5j
 - (d) 0.68938 + 0.9132j
- 2. $12.5\,\Omega$
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.27458 0.6883j) A
 - ii. $V_R = (8.23731 20.6491j) \,\mathrm{V}$
 - iii. $V_L = (77.8453 + 31.0539j) V$
 - iv. $V_C = (-26.0826 10.4048j) V$
 - v. $P_R = (-11.9511 11.3395j) W$
 - vi. $P_L = (42.7491 45.0545j) W$
 - vii. $P_C = (-14.3234 + 15.0958j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	14150725
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	LILIANA VERA GLZ		

- 1. (a) -198 + 10j
 - (b) -9.0566 + 49.6981j
 - (c) 2.5385 + 7.0256j
 - (d) 0.29242 + 0.54513j
- 2.15Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (1.6437 1.4931j) A
 - ii. $V_R = (32.8744 29.862j) \,\mathrm{V}$
 - iii. $V_L = (225.154 + 247.867j) V$
 - iv. $V_C = (-198.0284 218.005j) V$
 - v. $P_R = (9.44934 98.1694j) W$
 - vi. $P_L = (740.1799 + 71.24637j) W$
 - vii. $P_C = (-651.0061 62.6629j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	14125016
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	DAVID OTHONIEL SALDIVAR PEREZ		

- 1. (a) -414 154j
 - (b) -45.76 + 41.32j
 - (c) 8.64602 + 6.30973j
 - $(d)\ 0.337\,92 + 0.769\,64j$
- 2. 33.3333Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.32165 0.15875j) A
 - ii. $V_R = (16.0823 7.93758j) V$
 - iii. $V_L = (17.9544 + 36.3774j) \,\mathrm{V}$
 - iv. $V_C = (-14.0367 28.4398j) V$
 - v. $P_R = (3.9127 5.1062j) W$
 - vi. $P_L = (11.5499 + 8.85039j) W$
 - vii. $P_C = (-9.02973 6.91923j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	1205596
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	ALBERTO VAZQUEZ MEDINA		

- 1. (a) -908 297j
 - (b) -29.566 + 30.0189j
 - (c) 7.2 + 9.1j
 - (d) 0.47666 + 1.066j
- 2. 20.8333Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.036112 0.1427j) A
 - ii. $V_R = (1.8056 7.135j) V$
 - iii. $V_L = (37.6574 + 9.52971j) V$
 - iv. $V_C = (-9.463 2.3947j) V$
 - v. $P_R = (-0.95295 0.51531j) W$
 - vi. $P_L = (2.7198 5.0296j) W$
 - vii. $P_C = (-0.68346 + 1.2639j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	12666518
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	SAMUEL ROSAS GONZALEZ		

- 1. (a) -236 + 115j
 - (b) -15.7 + 51.1j
 - (c) 2.7059 + 5.6765j
 - (d) 0.43584 + 0.53295j
- 2. 46.6667Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.18978 0.35588j) A
 - ii. $V_R = (13.2849 24.9119j) \,\mathrm{V}$
 - iii. $V_L = (93.91582 + 50.08284j) V$
 - iv. $V_C = (-47.2007 25.1709j) V$
 - v. $P_R = (-6.34453 9.45578j) W$
 - vi. $P_L = (35.6475 23.9183j) W$
 - vii. $P_C = (-17.9159 + 12.021j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	12064655
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	EDSON ORLANDONAVARRO RAMIREZ		

- 1. (a) -250 + 250j
 - (b) 30 + 60j
 - (c) 4.641 + 7.1282j
 - (d) 0.50588 + 0.57647j
- 2.5Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (1.7839 2.2012j) A
 - ii. $V_R = (35.6789 44.0241j) V$
 - iii. $V_L = (248.9501 + 201.7594j) \,\mathrm{V}$
 - iv. $V_C = (-194.629 157.7353j) V$
 - v. $P_R = (-33.25667 157.0729j) W$
 - vi. $P_L = (888.2266 188.0621j) W$
 - vii. $P_C = (-694.4149 + 147.0268j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	11126870
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	JUAN GAEL GONZALEZ RODRIGUEZ		

- 1. (a) -835 + 88j
 - (b) -33.2787 + 64.9344j
 - (c) 6.4634 + 6.1707j
 - (d) 0.5686 + 0.90601j
- $2. 10 \Omega$
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.082454 0.27505j) A
 - ii. $V_R = (2.4736 8.2516j) V$
 - iii. $V_L = (51.8465 + 15.5421j) \,\mathrm{V}$
 - iv. $V_C = (-24.3202 7.2905j) V$
 - v. $P_R = (-2.0657 1.3608j) W$
 - vi. $P_L = (8.54987 12.9791j) W$
 - vii. $P_C = (-4.0106 + 6.0882j) W$



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Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	14155580
Professor's name	Suresh Kumar Gadi	Marks Obtained	/10
Student's name	LUIS ALEJANDRO URBINA GONZALEZ		

- 1. (a) -1001 + 664j
 - (b) -39.18 + 88.24j
 - (c) 7.16438 + 7.56164j
 - (d) 0.81773 + 0.88478j
- 2. 13.3333Ω
- 3. $R(1+\sqrt{3})$
- 4. (a) Figure 3
 - i. I = (0.042678 0.28902j) A
 - ii. $V_R = (0.85356 5.7805j) V$
 - iii. $V_L = (54.4796 + 8.0446j) V$
 - iv. $V_C = (-15.3332 2.26413j) V$
 - v. $P_R = (-1.6343 0.4934j) W$
 - vi. $P_L = (4.65015 15.4025j) W$
 - vii. $P_C = (-1.3088 + 4.335j) W$