Universidad Autónoma de Coahuila

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: Node and Mesh analysis	Registration #	***14137625***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***JESUS EMMANUEL MORALES MENUIOLA***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (4 + \mathrm{j}5)\,\Omega$ and $Z_2 = (2 + \mathrm{j}5)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

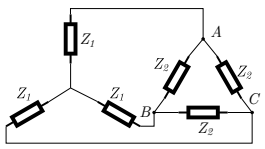

Figure 1

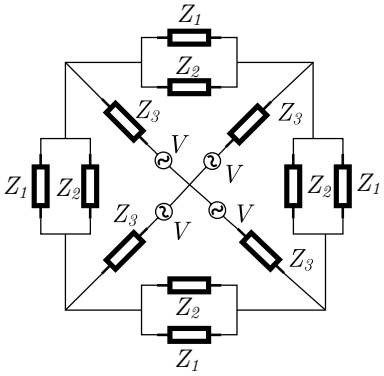

Figure 2

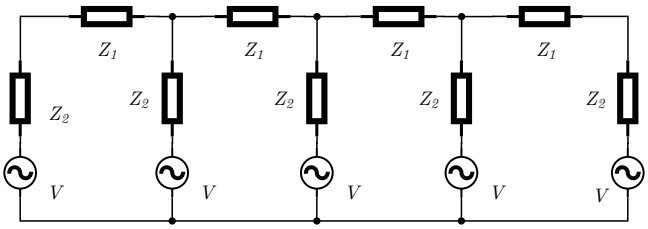

Figure 3

2. Let $Z_1 = (9 + \mathrm{j}5)\,\Omega$, $Z_2 = (7 + \mathrm{j}5)\,\Omega$, $Z_3 = (7 + \mathrm{j}7)\,\Omega$ and $V = (3 + \mathrm{j}4)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (3 + \mathrm{j}5)\,\Omega$, $Z_2 = (2 + \mathrm{j}9)\,\Omega$ and $V = (9 + \mathrm{j}5)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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Unidad Torreón

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

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (5 + \text{j}9)\,\Omega$ and $Z_2 = (6 + \text{j}7)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

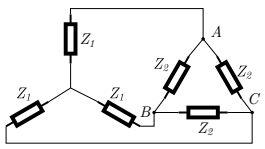

Figure 1

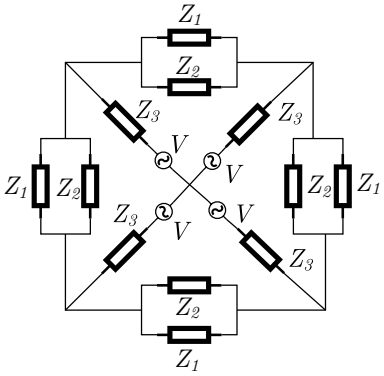

Figure 2

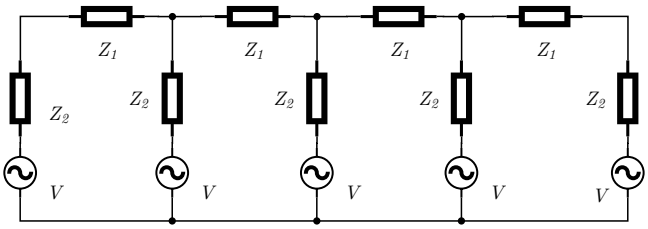

Figure 3

2. Let $Z_1 = (2 + \text{j}2)\,\Omega$, $Z_2 = (9 + \text{j}8)\,\Omega$, $Z_3 = (2 + \text{j}4)\,\Omega$ and $V = (4 + \text{j}7)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (5 + \text{j}6)\,\Omega$, $Z_2 = (8 + \text{j}5)\,\Omega$ and $V = (5 + \text{j}7)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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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: Node and Mesh analysis	Registration #	***14124427***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JERSON CHAVEZ ORTIZ***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (6 + \mathrm{j}3)\,\Omega$ and $Z_2 = (9 + \mathrm{j}7)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

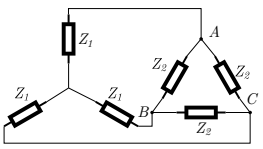

Figure 1

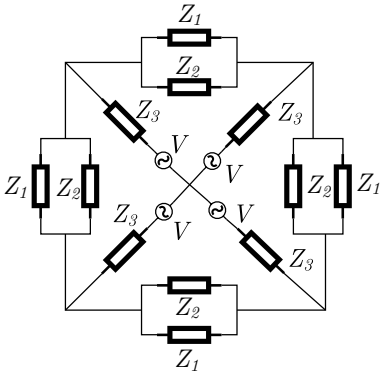

Figure 2

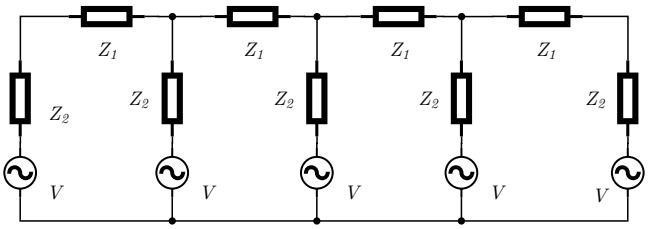

Figure 3

2. Let $Z_1 = (3 + \mathrm{j}5)\,\Omega$, $Z_2 = (6 + \mathrm{j}4)\,\Omega$, $Z_3 = (4 + \mathrm{j}9)\,\Omega$ and $V = (7 + \mathrm{j}2)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (8 + \mathrm{j}8)\,\Omega$, $Z_2 = (8 + \mathrm{j}8)\,\Omega$ and $V = (5 + \mathrm{j}7)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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Unidad Torreón

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

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (8 + \mathrm{j}5)\,\Omega$ and $Z_2 = (4 + \mathrm{j}6)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

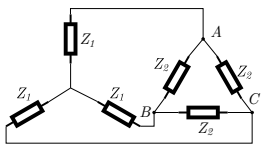

Figure 1

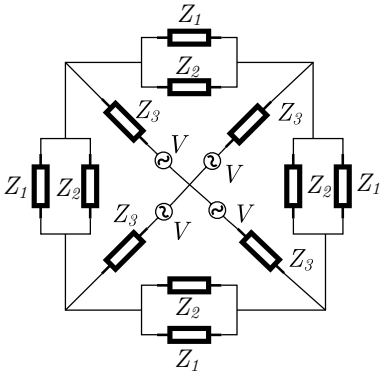

Figure 2

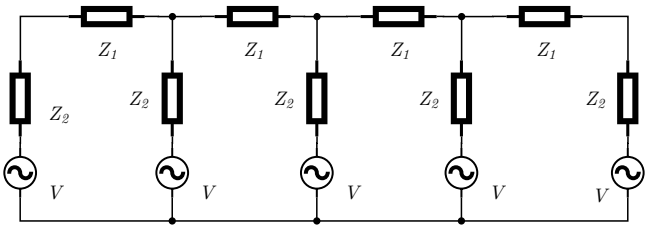

Figure 3

2. Let $Z_1 = (9 + \mathrm{j}7)\,\Omega$, $Z_2 = (3 + \mathrm{j}7)\,\Omega$, $Z_3 = (8 + \mathrm{j}5)\,\Omega$ and $V = (8 + \mathrm{j}6)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (4 + \mathrm{j}8)\,\Omega$, $Z_2 = (2 + \mathrm{j}5)\,\Omega$ and $V = (4 + \mathrm{j}3)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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Unidad Torreón

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

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (9 + \mathrm{j}6)\,\Omega$ and $Z_2 = (7 + \mathrm{j}2)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

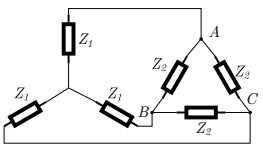

Figure 1

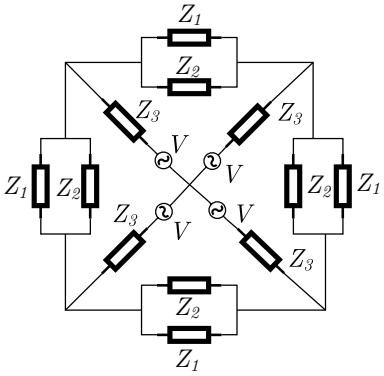

Figure 2

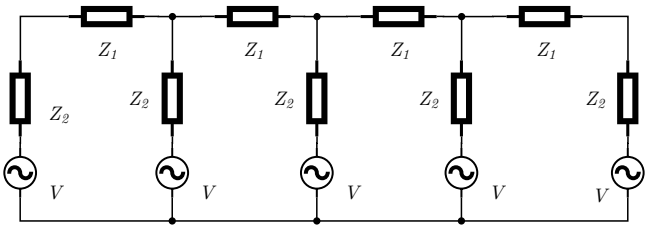

Figure 3

2. Let $Z_1 = (7 + \mathrm{j}6)\,\Omega$, $Z_2 = (8 + \mathrm{j}9)\,\Omega$, $Z_3 = (3 + \mathrm{j}2)\,\Omega$ and $V = (3 + \mathrm{j}9)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (5 + \mathrm{j}3)\,\Omega$, $Z_2 = (4 + \mathrm{j}9)\,\Omega$ and $V = (2 + \mathrm{j}4)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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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: Node and Mesh analysis	Registration #	***11073892***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***JOSUE AMADOR SIFUENTES***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (9 + \mathrm{j}6)\,\Omega$ and $Z_2 = (5 + \mathrm{j}4)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

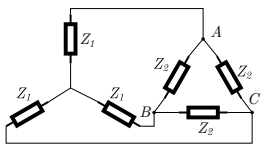

Figure 1

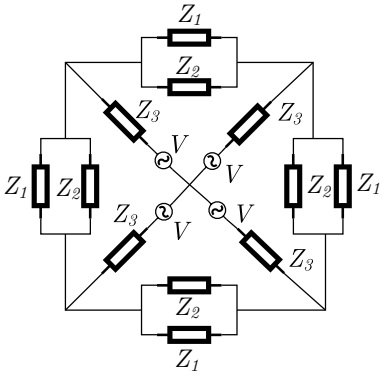

Figure 2

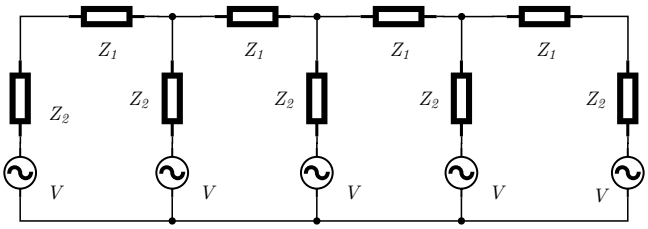

Figure 3

2. Let $Z_1 = (9 + \mathrm{j}2)\,\Omega$, $Z_2 = (5 + \mathrm{j}5)\,\Omega$, $Z_3 = (7 + \mathrm{j}9)\,\Omega$ and $V = (6 + \mathrm{j}3)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (7 + \mathrm{j}8)\,\Omega$, $Z_2 = (5 + \mathrm{j}6)\,\Omega$ and $V = (9 + \mathrm{j}4)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

Universidad Autónoma de Coahuila

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: Node and Mesh analysis	Registration #	***11268436***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***EDUARDO ZALDIVAR MARTINEZ***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (7 + \mathrm{j}2)\,\Omega$ and $Z_2 = (5 + \mathrm{j}5)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

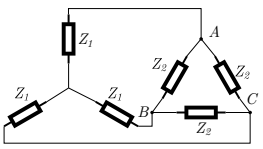

Figure 1

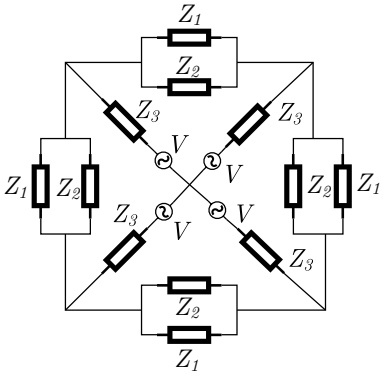

Figure 2

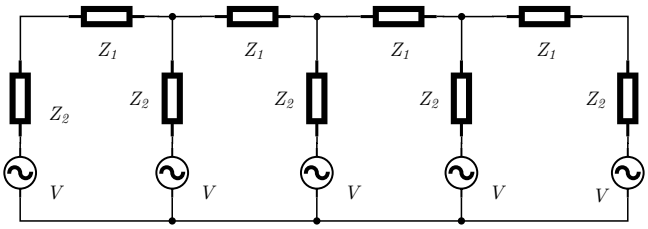

Figure 3

2. Let $Z_1 = (4 + \mathrm{j}4)\,\Omega$, $Z_2 = (8 + \mathrm{j}8)\,\Omega$, $Z_3 = (5 + \mathrm{j}6)\,\Omega$ and $V = (4 + \mathrm{j}3)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (8 + \mathrm{j}2)\,\Omega$, $Z_2 = (7 + \mathrm{j}9)\,\Omega$ and $V = (2 + \mathrm{j}7)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

Universidad Autónoma de Coahuila

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: Node and Mesh analysis	Registration #	***14140390***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***LUIS DAVID MARENTES REYES***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (8 + \mathrm{j}7)\,\Omega$ and $Z_2 = (3 + \mathrm{j}7)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

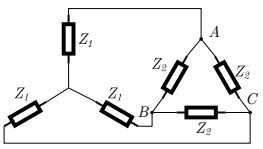

Figure 1

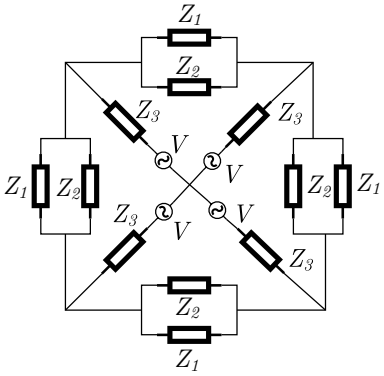

Figure 2

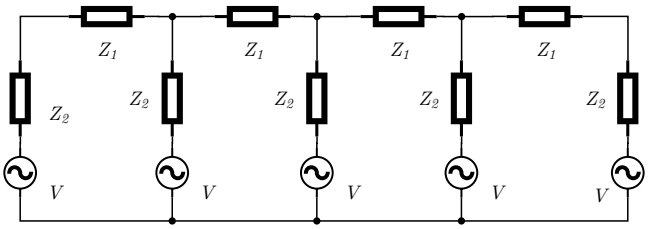

Figure 3

2. Let $Z_1 = (8 + \mathrm{j}3)\,\Omega$, $Z_2 = (3 + \mathrm{j}6)\,\Omega$, $Z_3 = (9 + \mathrm{j}3)\,\Omega$ and $V = (3 + \mathrm{j}8)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (4 + \mathrm{j}3)\,\Omega$, $Z_2 = (2 + \mathrm{j}9)\,\Omega$ and $V = (8 + \mathrm{j}7)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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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: Node and Mesh analysis	Registration #	***12068799***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***JESUS ANTONIO ROBLESREYES***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (5 + \text{j}2)\,\Omega$ and $Z_2 = (3 + \text{j}7)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

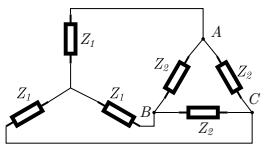

Figure 1

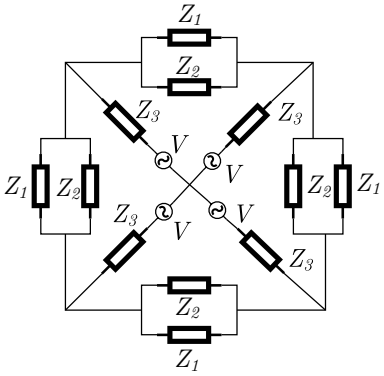

Figure 2

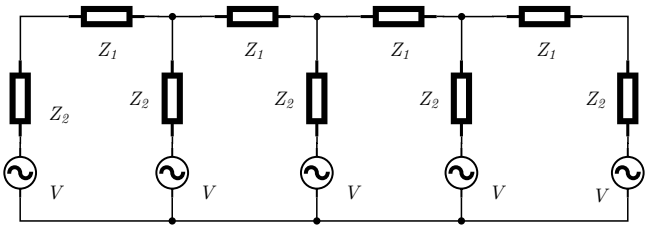

Figure 3

2. Let $Z_1 = (4 + \text{j}5)\,\Omega$, $Z_2 = (6 + \text{j}2)\,\Omega$, $Z_3 = (9 + \text{j}3)\,\Omega$ and $V = (9 + \text{j}2)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (6 + \text{j}7)\,\Omega$, $Z_2 = (7 + \text{j}4)\,\Omega$ and $V = (2 + \text{j}7)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

Universidad Autónoma de Coahuila

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: Node and Mesh analysis	Registration #	***14150725***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***LILIANA VERA GLZ***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (3 + \mathrm{j}4)\,\Omega$ and $Z_2 = (6 + \mathrm{j}9)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

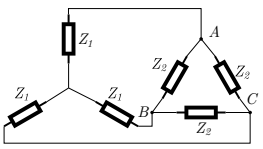

Figure 1

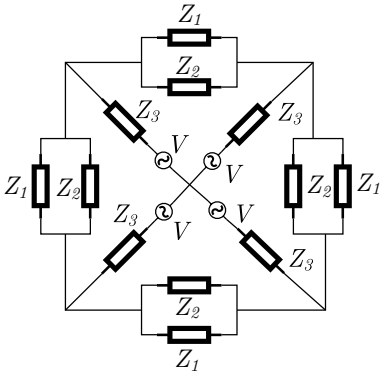

Figure 2

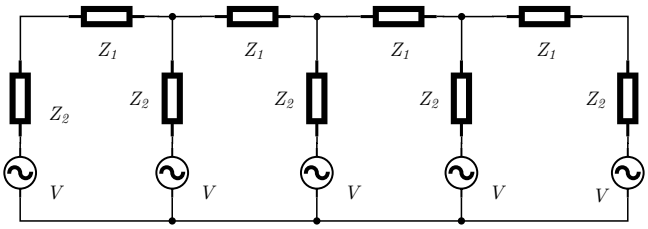

Figure 3

2. Let $Z_1 = (4 + \mathrm{j}5)\,\Omega$, $Z_2 = (5 + \mathrm{j}3)\,\Omega$, $Z_3 = (4 + \mathrm{j}9)\,\Omega$ and $V = (4 + \mathrm{j}6)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (9 + \mathrm{j}3)\,\Omega$, $Z_2 = (9 + \mathrm{j}9)\,\Omega$ and $V = (4 + \mathrm{j}7)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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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: Node and Mesh analysis	Registration #	***14125016***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***DAVID OTHONIEL SALDIVAR PEREZ***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (3 + \mathrm{j}6)\,\Omega$ and $Z_2 = (9 + \mathrm{j}5)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

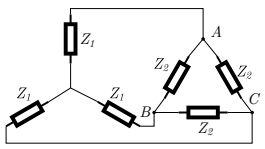

Figure 1

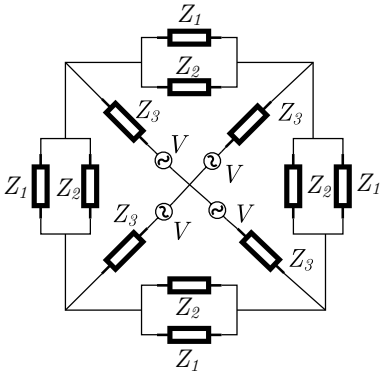

Figure 2

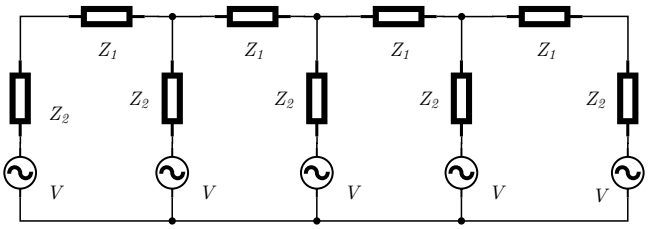

Figure 3

2. Let $Z_1 = (4 + \mathrm{j}2)\,\Omega$, $Z_2 = (5 + \mathrm{j}6)\,\Omega$, $Z_3 = (3 + \mathrm{j}4)\,\Omega$ and $V = (2 + \mathrm{j}7)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (7 + \mathrm{j}4)\,\Omega$, $Z_2 = (2 + \mathrm{j}2)\,\Omega$ and $V = (7 + \mathrm{j}6)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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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: Node and Mesh analysis	Registration #	***1205596***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***ALBERTO VAZQUEZ MEDINA***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (5 + \mathrm{j}7)\,\Omega$ and $Z_2 = (7 + \mathrm{j}8)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

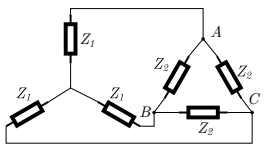

Figure 1

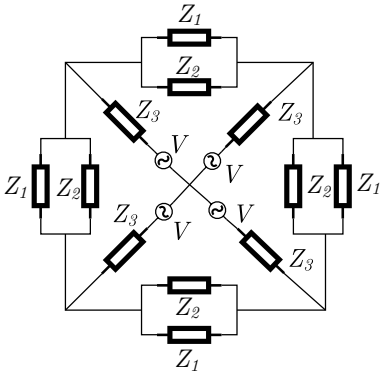

Figure 2

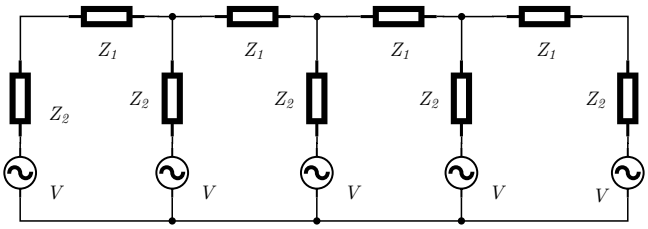

Figure 3

2. Let $Z_1 = (6 + \mathrm{j}8)\,\Omega$, $Z_2 = (8 + \mathrm{j}8)\,\Omega$, $Z_3 = (4 + \mathrm{j}7)\,\Omega$ and $V = (6 + \mathrm{j}7)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (7 + \mathrm{j}9)\,\Omega$, $Z_2 = (7 + \mathrm{j}4)\,\Omega$ and $V = (4 + \mathrm{j}8)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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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: Node and Mesh analysis	Registration #	***12666518***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***SAMUEL ROSAS GONZALEZ***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (5 + \mathrm{j}7)\,\Omega$ and $Z_2 = (9 + \mathrm{j}5)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

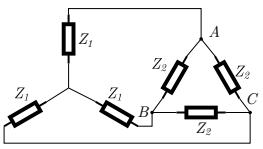

Figure 1

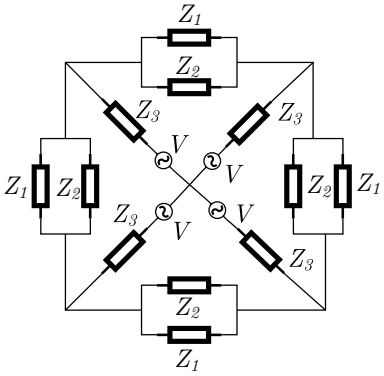

Figure 2

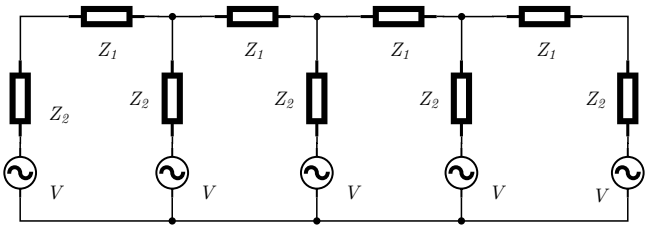

Figure 3

2. Let $Z_1 = (7 + \mathrm{j}3)\,\Omega$, $Z_2 = (4 + \mathrm{j}2)\,\Omega$, $Z_3 = (2 + \mathrm{j}6)\,\Omega$ and $V = (9 + \mathrm{j}7)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (4 + \mathrm{j}8)\,\Omega$, $Z_2 = (8 + \mathrm{j}4)\,\Omega$ and $V = (6 + \mathrm{j}8)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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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: Node and Mesh analysis	Registration #	***12064655***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***EDSON ORLANDONAVARRO RAMIREZ***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (7 + \mathrm{j}9)\,\Omega$ and $Z_2 = (6 + \mathrm{j}9)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

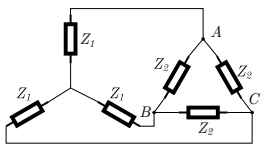

Figure 1

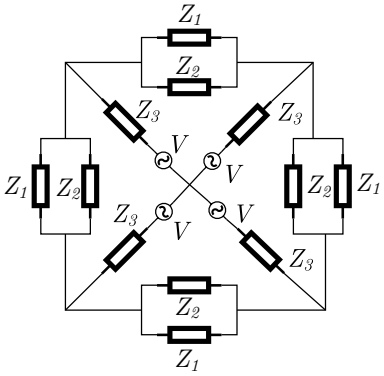

Figure 2

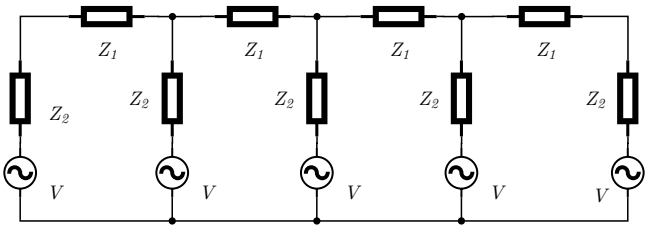

Figure 3

2. Let $Z_1 = (4 + \mathrm{j}7)\,\Omega$, $Z_2 = (4 + \mathrm{j}8)\,\Omega$, $Z_3 = (5 + \mathrm{j}4)\,\Omega$ and $V = (5 + \mathrm{j}4)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (3 + \mathrm{j}3)\,\Omega$, $Z_2 = (7 + \mathrm{j}8)\,\Omega$ and $V = (3 + \mathrm{j}7)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

Universidad Autónoma de Coahuila

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: Node and Mesh analysis	Registration #	***11126870***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***JUAN GAEL GONZALEZ RODRIGUEZ***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (6 + \text{j}8)\,\Omega$ and $Z_2 = (8 + \text{j}9)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

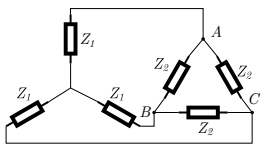

Figure 1

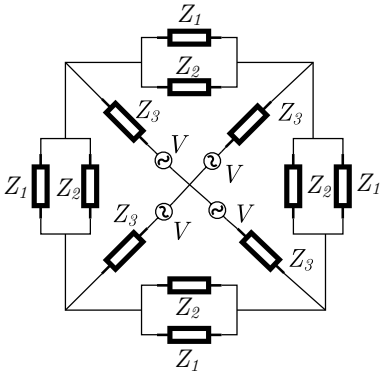

Figure 2

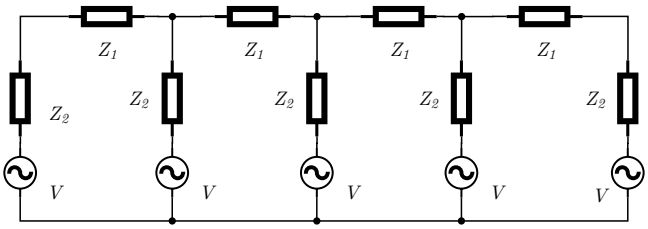

Figure 3

2. Let $Z_1 = (9 + \text{j}6)\,\Omega$, $Z_2 = (5 + \text{j}2)\,\Omega$, $Z_3 = (9 + \text{j}9)\,\Omega$ and $V = (4 + \text{j}2)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (9 + \text{j}6)\,\Omega$, $Z_2 = (3 + \text{j}6)\,\Omega$ and $V = (6 + \text{j}4)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

Universidad Autónoma de Coahuila

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: Node and Mesh analysis	Registration #	***14155580***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***LUIS ALEJANDRO URBINA GONZALEZ***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (6 + \mathrm{j}2)\,\Omega$ and $Z_2 = (4 + \mathrm{j}4)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

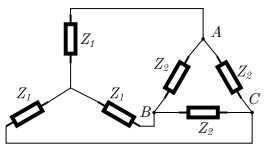

Figure 1

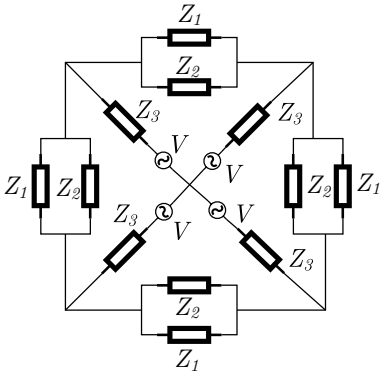

Figure 2

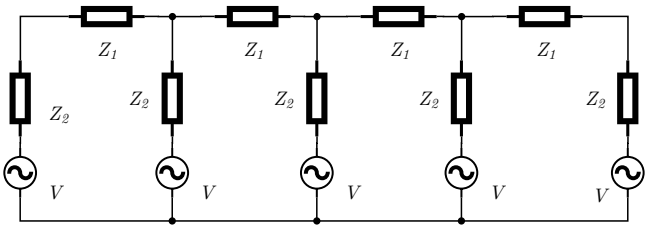

Figure 3

2. Let $Z_1 = (7 + \mathrm{j}7)\,\Omega$, $Z_2 = (4 + \mathrm{j}6)\,\Omega$, $Z_3 = (9 + \mathrm{j}6)\,\Omega$ and $V = (5 + \mathrm{j}5)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (4 + \mathrm{j}8)\,\Omega$, $Z_2 = (4 + \mathrm{j}4)\,\Omega$ and $V = (2 + \mathrm{j}3)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)

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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: Node and Mesh analysis	Registration #	***14629184***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***JOSE WALDO QUINTANA ARANDA***		

Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on the A4 or Letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. Let $Z_1 = (5 + \text{j}3)\,\Omega$ and $Z_2 = (5 + \text{j}4)\,\Omega$. Calculate the equivalent resistance between the terminals A and B of the circuit shown in Figure 1. (2 points)

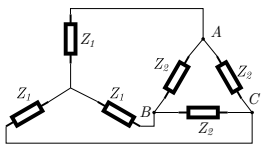

Figure 1

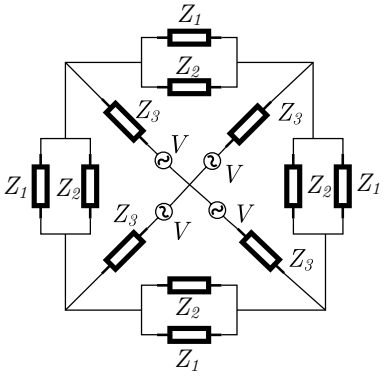

Figure 2

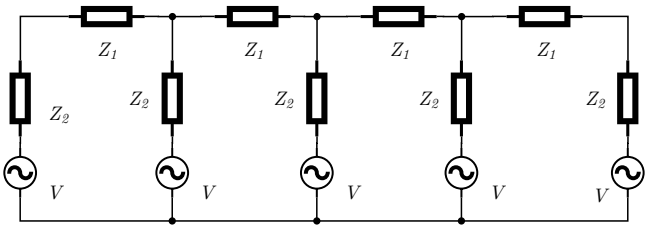

Figure 3

2. Let $Z_1 = (9 + \text{j}5)\,\Omega$, $Z_2 = (7 + \text{j}2)\,\Omega$, $Z_3 = (8 + \text{j}4)\,\Omega$ and $V = (2 + \text{j}9)\,\Omega$. Using Mesh analysis to find the current flowing through each element shown in the circuit shown in Figure 2. (4 points)

3. Let $Z_1 = (4 + \text{j}2)\,\Omega$, $Z_2 = (5 + \text{j}2)\,\Omega$ and $V = (3 + \text{j}5)\,\Omega$. Using nodal analysis find the current flowing through each element shown in the circuit shown in Figure 3. (4 points)