



Universidad Autónoma de Coahuila

Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j4\Omega$, $Z_2 = j5\Omega$, $Z_3 = 2\Omega$, $Z_4 = 5\Omega$, $Z_5 = 9\Omega$, $Z_6 = (5 + j7)\Omega$, $V_1 = 5V$ and $V_2 = (7 + j7)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

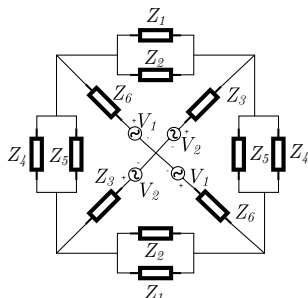


Figure 1

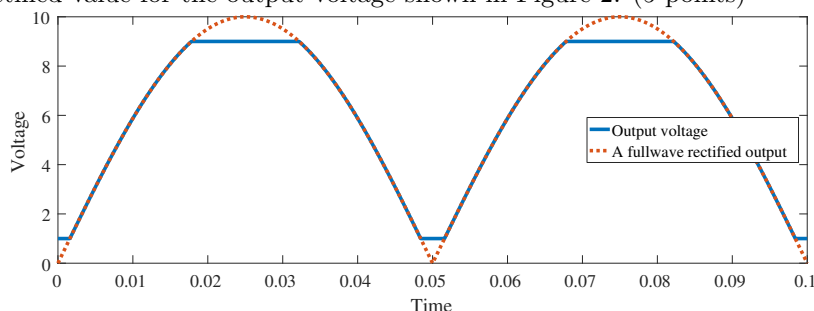


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (3 + j4)\Omega$. (5 points)

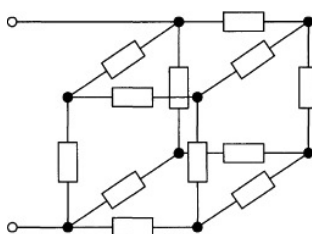


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

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

Instructions

1. 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 $Z_1 = -j5\Omega$, $Z_2 = j9\Omega$, $Z_3 = 6\Omega$, $Z_4 = 7\Omega$, $Z_5 = 2\Omega$, $Z_6 = (2 + j9)\Omega$, $V_1 = 8\text{ V}$ and $V_2 = (2 + j4)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
2. Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

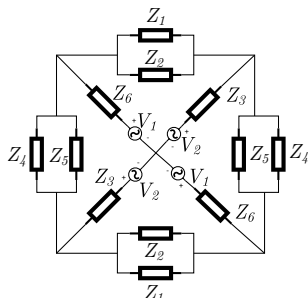


Figure 1

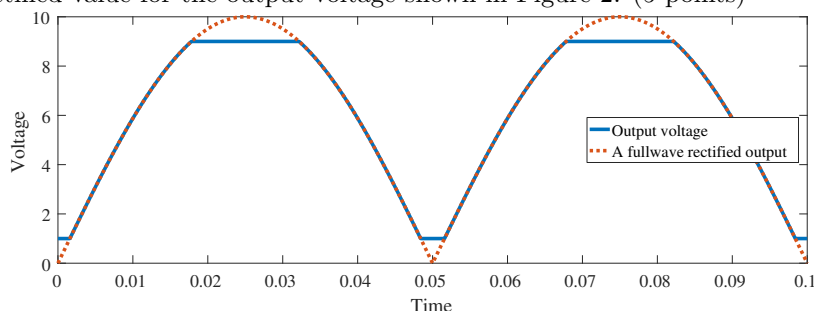


Figure 2

3. Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (4 + j7)\Omega$. (5 points)

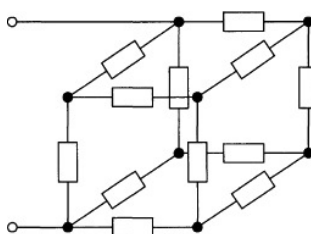


Figure 3

4. At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Unidad Torreón

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

Instructions

1. 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 $Z_1 = -j6\Omega$, $Z_2 = j3\Omega$, $Z_3 = 9\Omega$, $Z_4 = 7\Omega$, $Z_5 = 3\Omega$, $Z_6 = (5 + j6)\Omega$, $V_1 = 4V$ and $V_2 = (4 + j9)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
2. Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

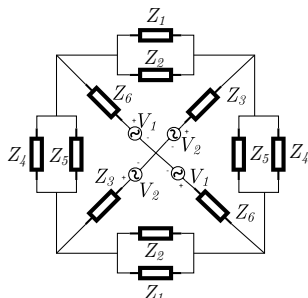


Figure 1

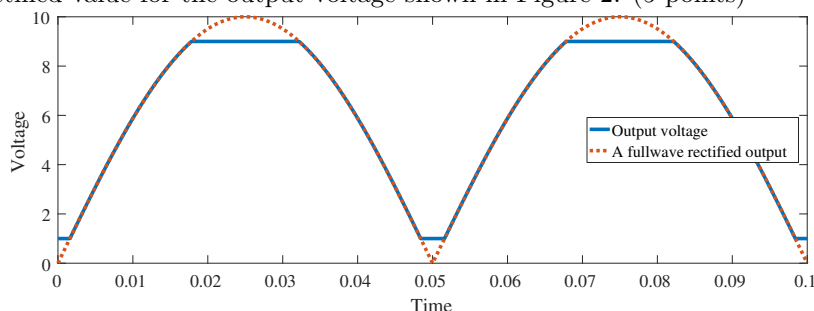


Figure 2

3. Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (7 + j2)\Omega$. (5 points)

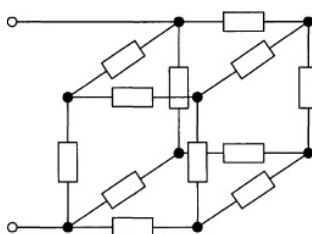


Figure 3

4. At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j8\Omega$, $Z_2 = j5\Omega$, $Z_3 = 4\Omega$, $Z_4 = 6\Omega$, $Z_5 = 9\Omega$, $Z_6 = (7 + j3)\Omega$, $V_1 = 7V$ and $V_2 = (8 + j5)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

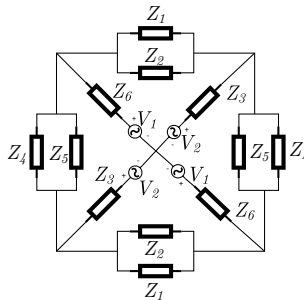


Figure 1

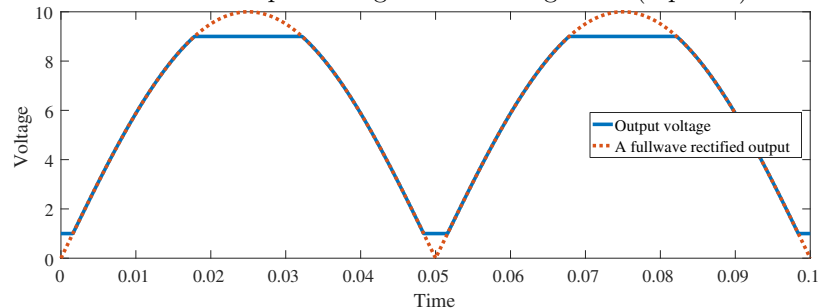


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (8 + j6)\Omega$. (5 points)

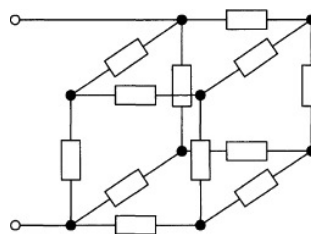


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j9\Omega$, $Z_2 = j6\Omega$, $Z_3 = 7\Omega$, $Z_4 = 2\Omega$, $Z_5 = 7\Omega$, $Z_6 = (6 + j8)\Omega$, $V_1 = 9V$ and $V_2 = (3 + j2)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

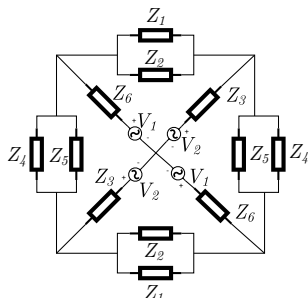


Figure 1

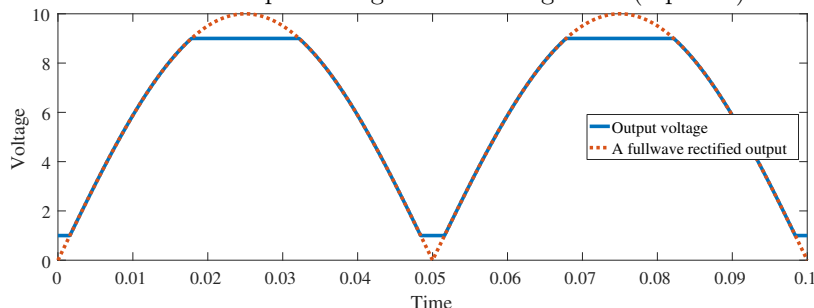


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (3 + j9)\Omega$. (5 points)

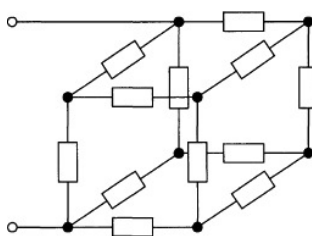


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j9\Omega$, $Z_2 = j6\Omega$, $Z_3 = 5\Omega$, $Z_4 = 4\Omega$, $Z_5 = 9\Omega$, $Z_6 = (2 + j5)\Omega$, $V_1 = 5V$ and $V_2 = (7 + j9)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

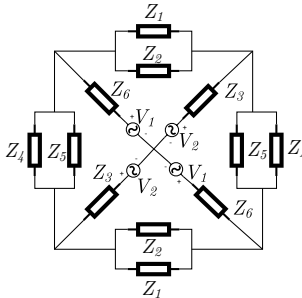


Figure 1

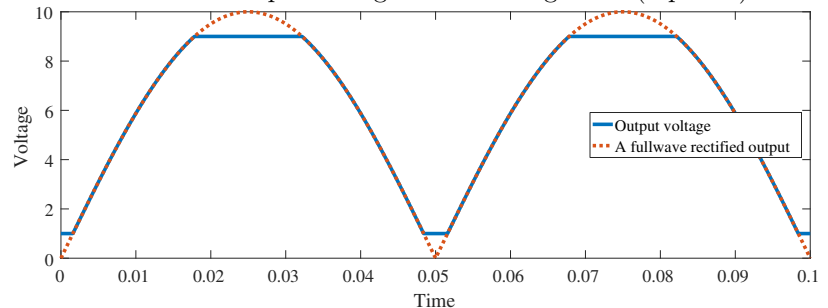


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (6 + j3)\Omega$. (5 points)

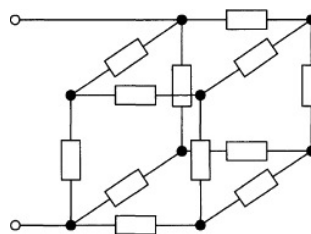


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j7\Omega$, $Z_2 = j2\Omega$, $Z_3 = 5\Omega$, $Z_4 = 5\Omega$, $Z_5 = 4\Omega$, $Z_6 = (4 + j8)\Omega$, $V_1 = 8\text{ V}$ and $V_2 = (5 + j6)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

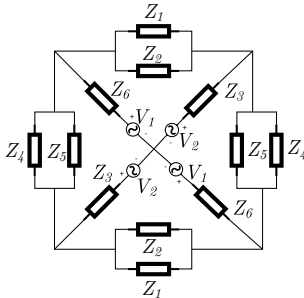


Figure 1

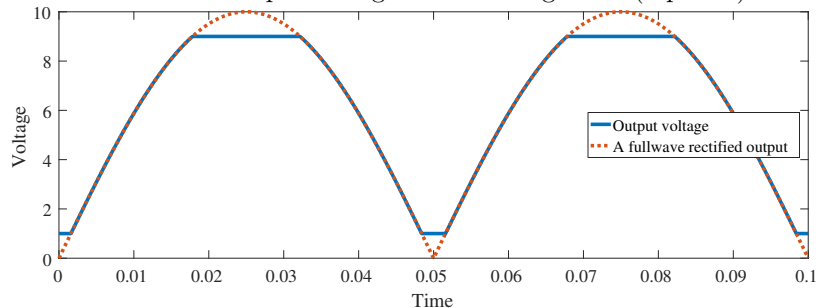


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (4 + j3)\Omega$. (5 points)

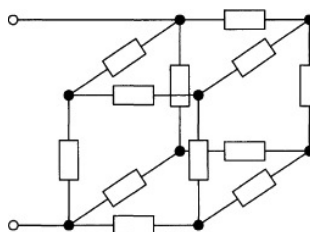


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Unidad Torreón

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

Instructions

1. 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 $Z_1 = -j8\Omega$, $Z_2 = j7\Omega$, $Z_3 = 3\Omega$, $Z_4 = 7\Omega$, $Z_5 = 8\Omega$, $Z_6 = (3 + j3)\Omega$, $V_1 = 6V$ and $V_2 = (9 + j3)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
2. Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

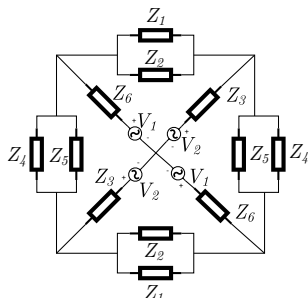


Figure 1

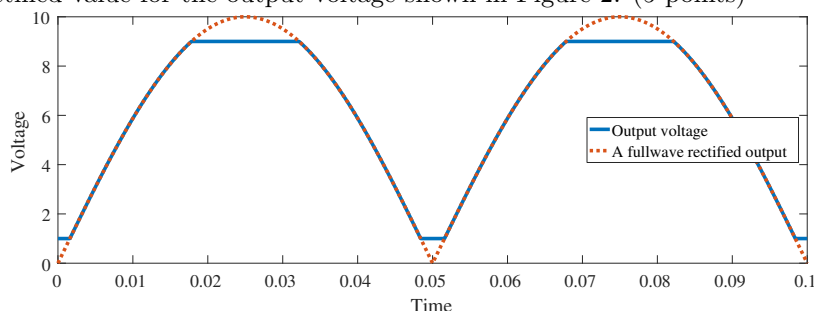


Figure 2

3. Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (3 + j8)\Omega$. (5 points)

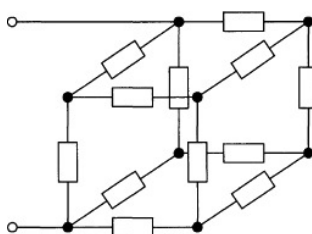


Figure 3

4. At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j5\Omega$, $Z_2 = j2\Omega$, $Z_3 = 3\Omega$, $Z_4 = 7\Omega$, $Z_5 = 4\Omega$, $Z_6 = (5 + j6)\Omega$, $V_1 = 2V$ and $V_2 = (9 + j3)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

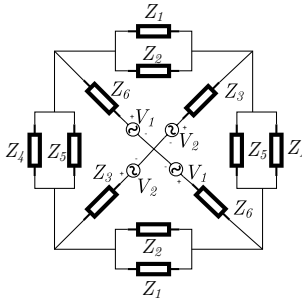


Figure 1

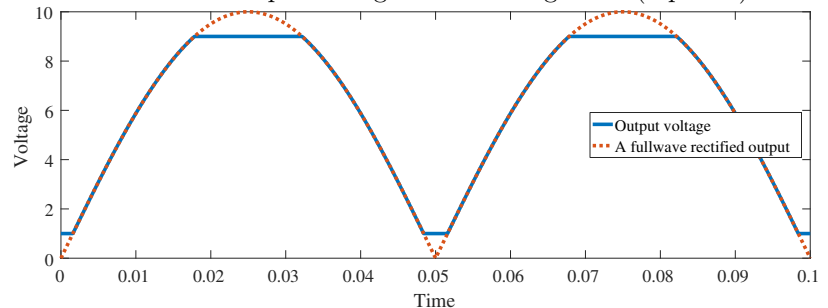


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (9 + j2)\Omega$. (5 points)

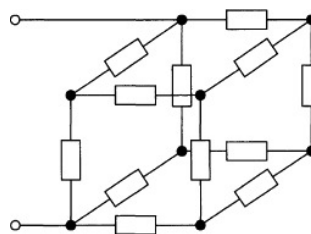


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j3\Omega$, $Z_2 = j4\Omega$, $Z_3 = 6\Omega$, $Z_4 = 9\Omega$, $Z_5 = 4\Omega$, $Z_6 = (5 + j5)\Omega$, $V_1 = 3V$ and $V_2 = (4 + j9)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

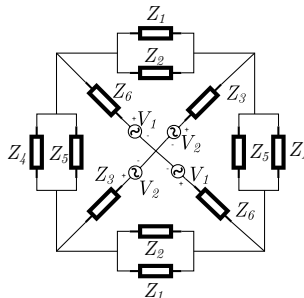


Figure 1

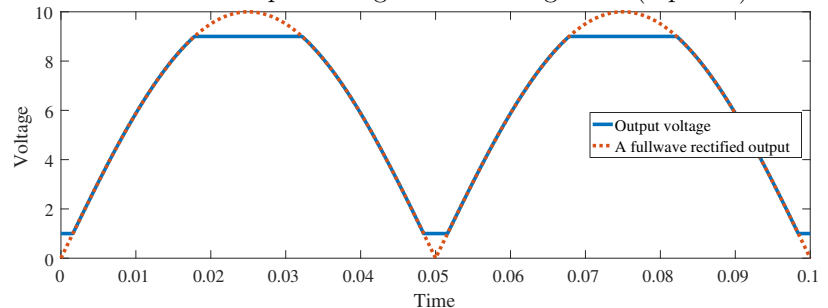


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (4 + j6)\Omega$. (5 points)

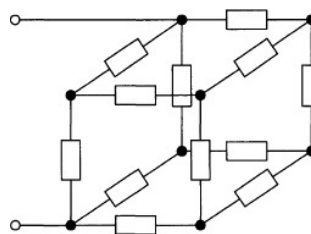


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j3\Omega$, $Z_2 = j6\Omega$, $Z_3 = 9\Omega$, $Z_4 = 5\Omega$, $Z_5 = 4\Omega$, $Z_6 = (2 + j5)\Omega$, $V_1 = 6V$ and $V_2 = (3 + j4)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

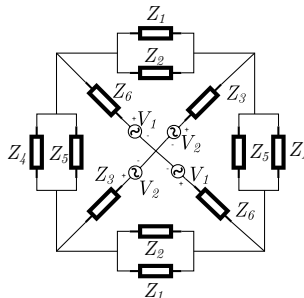


Figure 1

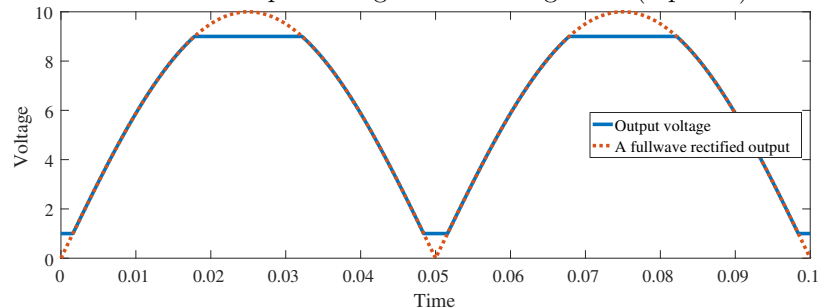


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (2 + j7)\Omega$. (5 points)

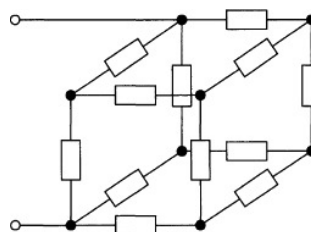


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j5\Omega$, $Z_2 = j7\Omega$, $Z_3 = 7\Omega$, $Z_4 = 8\Omega$, $Z_5 = 6\Omega$, $Z_6 = (8 + j8)\Omega$, $V_1 = 8V$ and $V_2 = (4 + j7)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

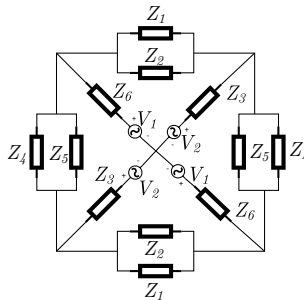


Figure 1

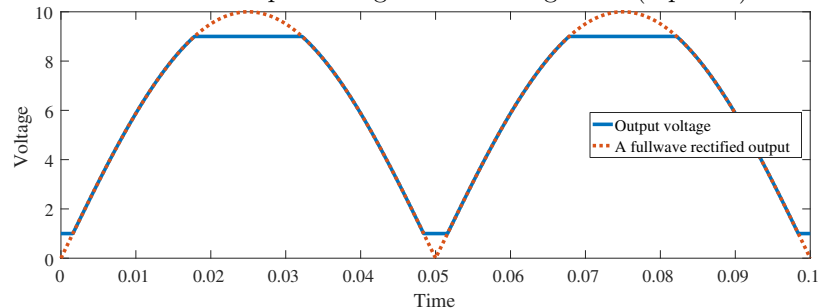


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (6 + j7)\Omega$. (5 points)

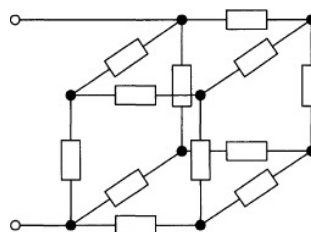


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



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Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

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

Instructions

1. 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 $Z_1 = -j5\Omega$, $Z_2 = j7\Omega$, $Z_3 = 9\Omega$, $Z_4 = 5\Omega$, $Z_5 = 7\Omega$, $Z_6 = (3 + j4)\Omega$, $V_1 = 2V$ and $V_2 = (2 + j6)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
2. Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

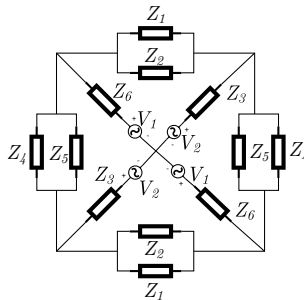


Figure 1

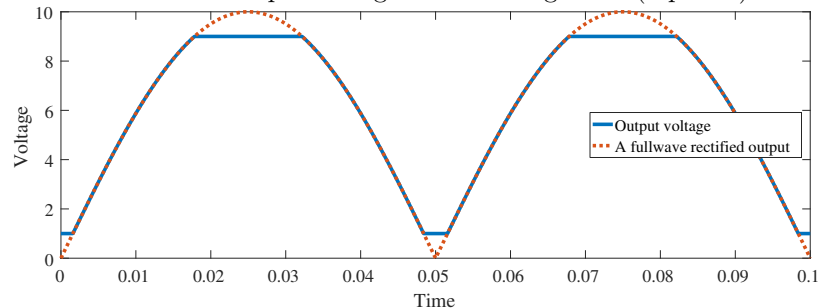


Figure 2

3. Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (9 + j7)\Omega$. (5 points)

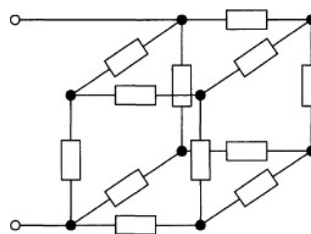


Figure 3

4. At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



Universidad Autónoma de Coahuila

Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

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

Instructions

1. 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 $Z_1 = -j7\Omega$, $Z_2 = j9\Omega$, $Z_3 = 6\Omega$, $Z_4 = 9\Omega$, $Z_5 = 4\Omega$, $Z_6 = (7 + j4)\Omega$, $V_1 = 8\text{ V}$ and $V_2 = (5 + j4)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
2. Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

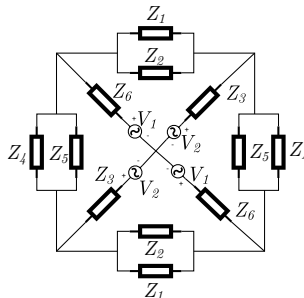


Figure 1

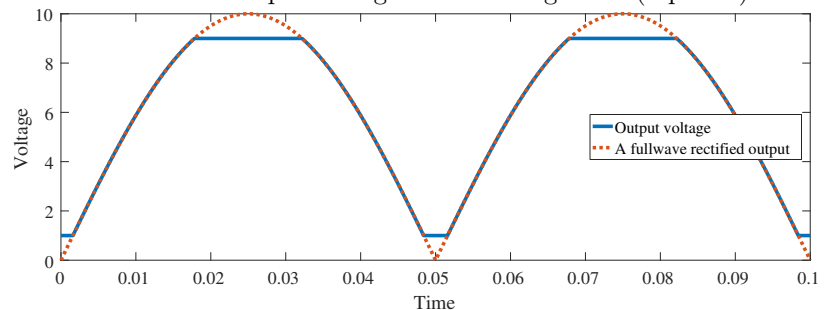


Figure 2

3. Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (5 + j4)\Omega$. (5 points)

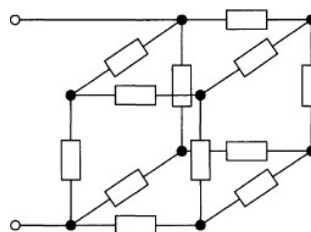


Figure 3

4. At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



Universidad Autónoma de Coahuila

Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j6\Omega$, $Z_2 = j8\Omega$, $Z_3 = 8\Omega$, $Z_4 = 9\Omega$, $Z_5 = 9\Omega$, $Z_6 = (6 + j5)\Omega$, $V_1 = 2V$ and $V_2 = (9 + j9)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

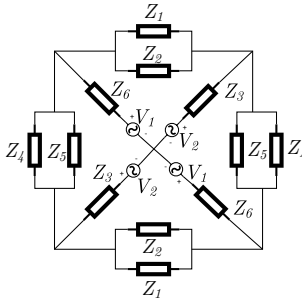


Figure 1

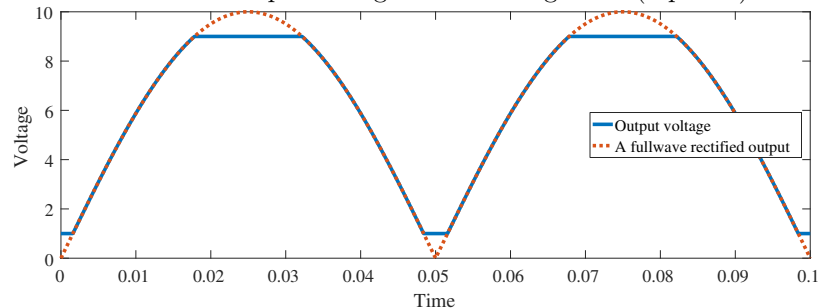


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (4 + j2)\Omega$. (5 points)

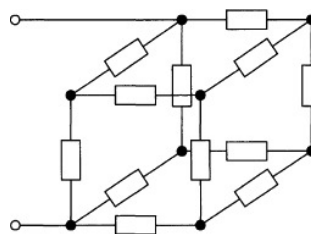


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



Universidad Autónoma de Coahuila

Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

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

Instructions

1. 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 $Z_1 = -j6\Omega$, $Z_2 = j2\Omega$, $Z_3 = 4\Omega$, $Z_4 = 4\Omega$, $Z_5 = 7\Omega$, $Z_6 = (7 + j4)\Omega$, $V_1 = 6V$ and $V_2 = (9 + j6)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
2. Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

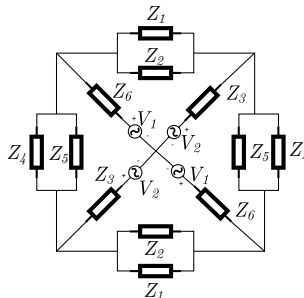


Figure 1

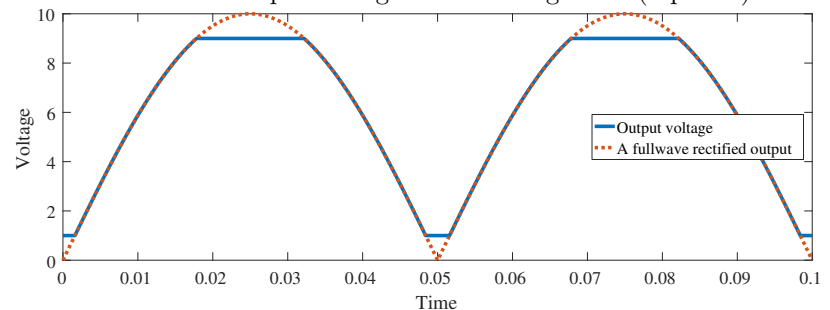


Figure 2

3. Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (5 + j5)\Omega$. (5 points)

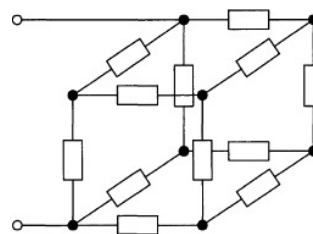


Figure 3

4. At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)



Universidad Autónoma de Coahuila

Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

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

Instructions

- 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

- Let $Z_1 = -j5\Omega$, $Z_2 = j3\Omega$, $Z_3 = 5\Omega$, $Z_4 = 4\Omega$, $Z_5 = 9\Omega$, $Z_6 = (5 + j7)\Omega$, $V_1 = 2V$ and $V_2 = (8 + j4)\Omega$. Find the current and voltage across each element in the circuit shown in Figure 1. (5 points)
- Calculate root mean square and average rectified value for the output voltage shown in Figure 2. (5 points)

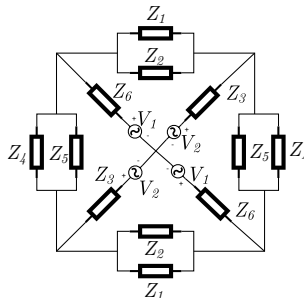


Figure 1

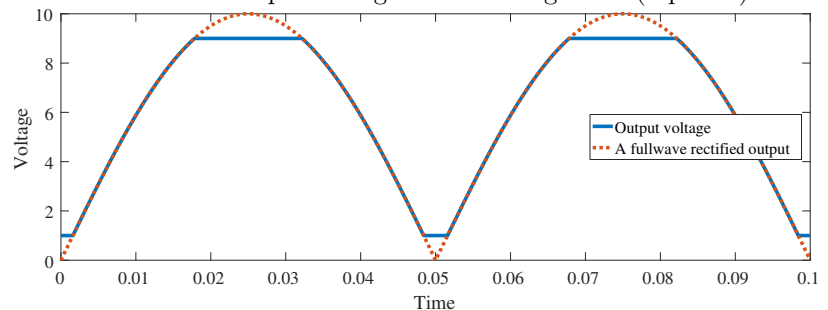


Figure 2

- Calculate the impedance between the terminals shown in Figure 3. The impedance of individual element shown in the circuit is $Z = (2 + j9)\Omega$. (5 points)

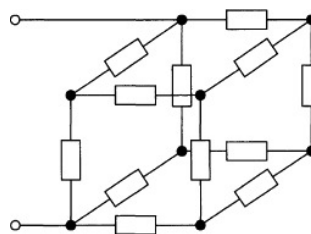


Figure 3

- At our school's washroom, if you drop a bubblegum or a paper in the men's urinals, what happens to it? (1 point)