Universidad Autónoma de Coahuila

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 #	***9132341***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***EDGAR CERDA 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 $A = 7 + 4\text{j}$, $B = 5 + 7\text{j}$ and $C = 8 + 7\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 4}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 2 m. The resistance of the metal frame used for the cube is $3\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

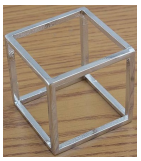


Figure 1

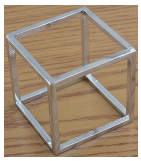
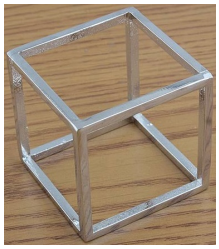


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***8053323***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JUAN PABLO DUARTE MONSIVAIS***		

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 $A = 2 + 8\text{j}$, $B = 3 + 6\text{j}$ and $C = 5 + 4\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 8}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 5 m. The resistance of the metal frame used for the cube is $2\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

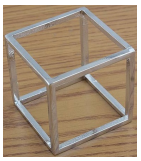
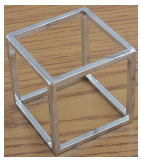


Figure 1



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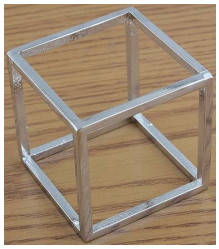


Universidad Autónoma de Coahuila

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 #	*12127844*
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JUAN MIGUEL BARRIENTOS GARCIA***		

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 $A = 5 + 2\text{j}$, $B = 7 + 8\text{j}$ and $C = 5 + 7\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 2}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 9 m. The resistance of the metal frame used for the cube is $6\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

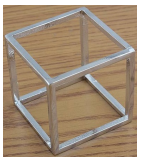
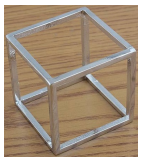


Figure 1



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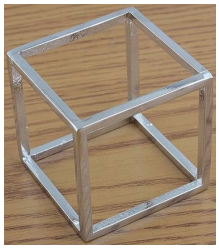


Universidad Autónoma de Coahuila

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 #	***12132791***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***ISRAEL 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 $A = 3 + 3\text{j}$, $B = 7 + 6\text{j}$ and $C = 5 + 5\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 3}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 7 m. The resistance of the metal frame used for the cube is $7\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

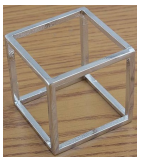
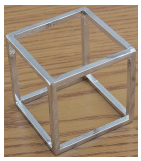


Figure 1



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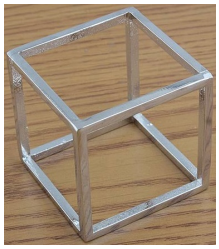

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Facultad de Ingeniería Mecánica y Eléctrica

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 #	***10062268***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JULIO ALEJANDRO MARIN GARCIA***		

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 $A = 6 + 4\text{j}$, $B = 7 + 9\text{j}$ and $C = 8 + 4\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 4}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 4 m. The resistance of the metal frame used for the cube is $6\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

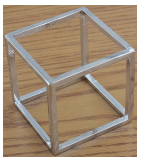
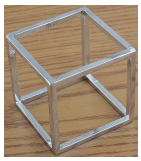


Figure 1



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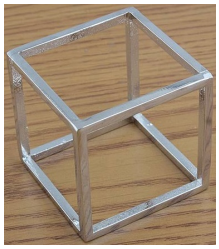


Universidad Autónoma de Coahuila

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 #	***7050612***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***BEATRIZ ELIZABETH ALBA 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 $A = 6 + 4\text{j}$, $B = 9 + 3\text{j}$ and $C = 8 + 2\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 4}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 8 m. The resistance of the metal frame used for the cube is $6\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

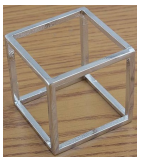
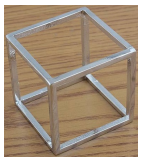


Figure 1



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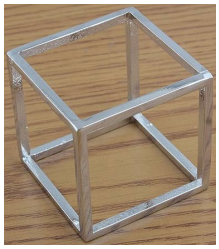


Universidad Autónoma de Coahuila

Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

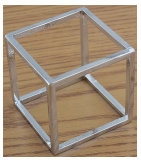
Subject	Circuit analysis II	Group	5A
Degree	Electrical engineering	Due for	01/09/2016
Exam / Homework	Homework 1: Basics of DC and AC circuits	Registration #	***98017052***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***LUIZ EDUARDO***		

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 $A = 6 + 3\text{j}$, $B = 4 + 7\text{j}$ and $C = 8 + 5\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 3}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 2 m. The resistance of the metal frame used for the cube is $5\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)



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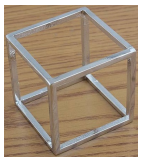

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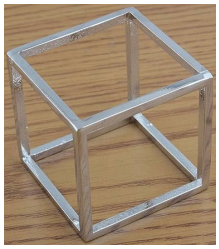


Universidad Autónoma de Coahuila

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 #	***12125213***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***EMMANUEL ALEJANDRO***		

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 $A = 8 + 3\text{j}$, $B = 9 + 3\text{j}$ and $C = 4 + 3\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 3}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 4 m. The resistance of the metal frame used for the cube is $7\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

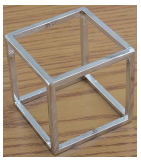
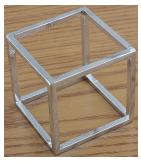


Figure 1



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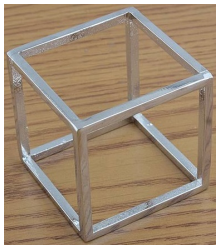

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Facultad de Ingeniería Mecánica y Eléctrica

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 #	***12146394***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JOSELY ROSALES***		

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 $A = 5 + 4\text{j}$, $B = 3 + 2\text{j}$ and $C = 8 + 3\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 4}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 8 m. The resistance of the metal frame used for the cube is $5\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

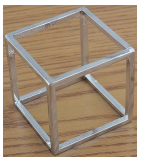
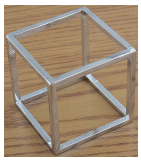


Figure 1



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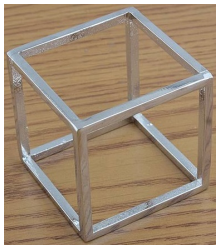

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Facultad de Ingeniería Mecánica y Eléctrica

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 #	***12133449***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***MARIO ALBERTO GAMEZ ROQUE***		

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 $A = 3 + 2\text{j}$, $B = 4 + 8\text{j}$ and $C = 7 + 4\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 2}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 4 m. The resistance of the metal frame used for the cube is $2\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

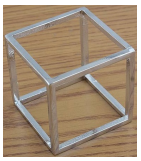


Figure 1

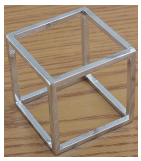
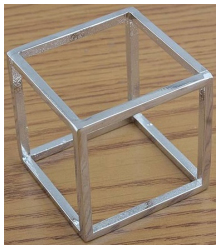


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***12146385***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***RODRIGUEZ PEREZ RODOLFO***		

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 $A = 8 + 8\text{j}$, $B = 5 + 3\text{j}$ and $C = 8 + 6\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 8}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 6 m. The resistance of the metal frame used for the cube is $6\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

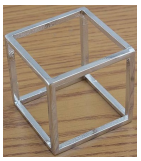


Figure 1

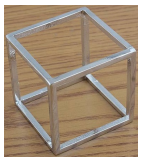
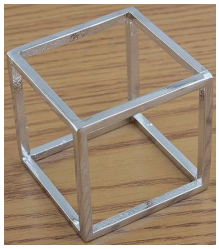


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***10056986***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***ARTURO CORDERO ROBLES***		

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 $A = 4 + 9\text{j}$, $B = 6 + 7\text{j}$ and $C = 2 + 3\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 9}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 9 m. The resistance of the metal frame used for the cube is $6\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

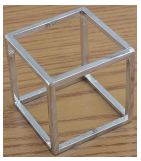


Figure 1

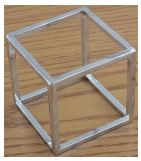
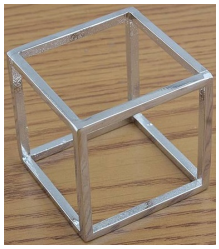


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***12128743***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***GIBRAM ALFONSO HERNANDEZ 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 $A = 9 + 7\text{j}$, $B = 8 + 6\text{j}$ and $C = 8 + 6\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 7}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 9 m. The resistance of the metal frame used for the cube is $6\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

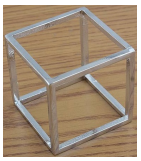


Figure 1

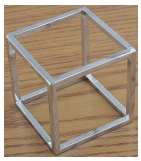
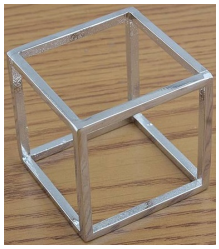


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***12157333***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***EDGAR RICARDO CHAIREZ VILLARRIAL***		

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 $A = 3 + 4\text{j}$, $B = 7 + 8\text{j}$ and $C = 4 + 3\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 4}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 9 m. The resistance of the metal frame used for the cube is $5\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

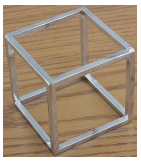


Figure 1

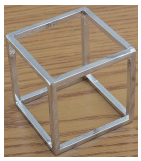
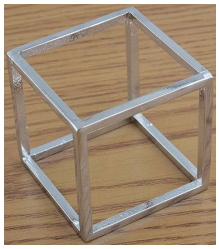


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***12154267***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JOSE FRANCISCO TOVAR JARAMILLO–***		

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 $A = 2 + 9\text{j}$, $B = 4 + 9\text{j}$ and $C = 2 + 2\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 9}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 4 m. The resistance of the metal frame used for the cube is $6\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

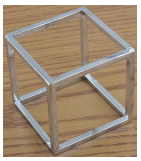


Figure 1

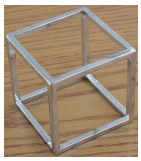


Figure 2

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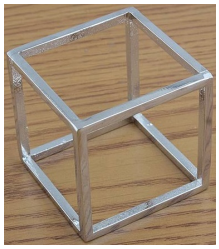

Universidad Autónoma de Coahuila

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 #	***12142724***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***ALLISON DANIELA MACIAS HERNANDEZ***		

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 $A = 8 + 6\text{j}$, $B = 7 + 4\text{j}$ and $C = 8 + 8\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 6}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 5 m. The resistance of the metal frame used for the cube is $2\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

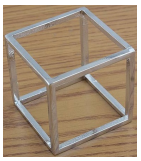

Figure 1

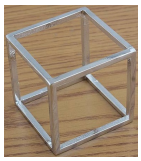

Figure 2

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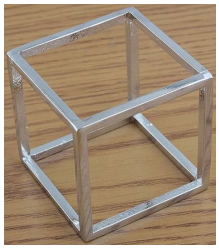


Universidad Autónoma de Coahuila

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 #	***10068360***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***KIM EDUARDO SANCHEZ 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 $A = 9 + 2\text{j}$, $B = 8 + 8\text{j}$ and $C = 8 + 4\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 2}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 2 m. The resistance of the metal frame used for the cube is $5\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

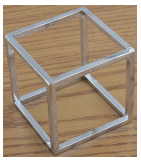


Figure 1

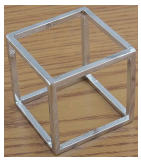
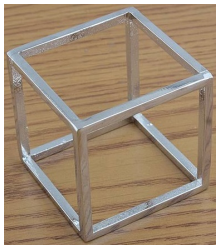


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***11288180***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JORGE ANTONIO MOLINA 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 $A = 6 + 9\text{j}$, $B = 6 + 8\text{j}$ and $C = 6 + 2\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 9}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 8 m. The resistance of the metal frame used for the cube is $2\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

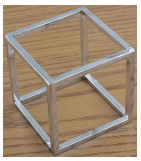


Figure 1

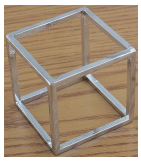
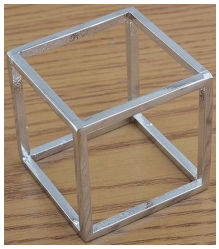


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***12139200***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***CARLOS RODOLFO MENA MONTES***		

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 $A = 5 + 6\text{j}$, $B = 5 + 2\text{j}$ and $C = 9 + 7\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 6}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 2 m. The resistance of the metal frame used for the cube is $5\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

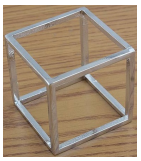


Figure 1

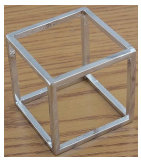
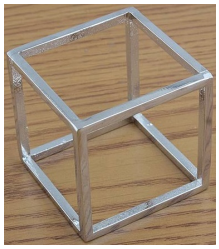


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***10053330***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JOSE FERNANDO AGUILAR COLORADO***		

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 $A = 4 + 6\text{j}$, $B = 5 + 7\text{j}$ and $C = 3 + 9\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 6}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 7 m. The resistance of the metal frame used for the cube is $8\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

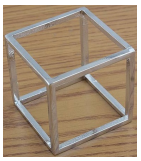


Figure 1

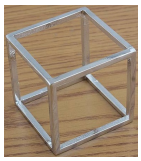
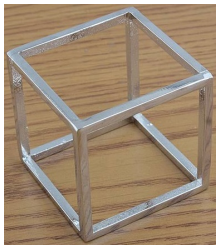


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***5113606***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***OBDULIA CASTANEDA 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 $A = 7 + 6\text{j}$, $B = 7 + 7\text{j}$ and $C = 6 + 3\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 6}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 2 m. The resistance of the metal frame used for the cube is $3\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

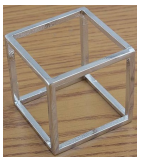


Figure 1

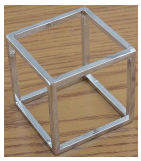
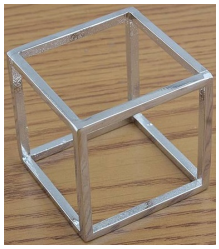


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.



Universidad Autónoma de Coahuila

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 #	***10073388***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***AXEL JAVIER RODRIGUEZ MARIN***		

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 $A = 2 + 3\text{j}$, $B = 9 + 4\text{j}$ and $C = 3 + 7\text{j}$, simplify the following expressions. (2 points)
   (a) A^3 (b) $\dfrac{A^2 B}{C}$ (c) $\dfrac{A}{B} + C$ (d) $\dfrac{A}{\dfrac{B}{C} + 3}$
2. The side of the cube-shaped metal frame shown in Figure 1 is 2 m. The resistance of the metal frame used for the cube is $6\,\Omega\,\text{m}^{-1}$. Calculate the resistance between two opposite corners. (2 points)

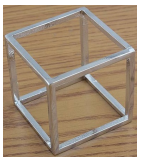


Figure 1

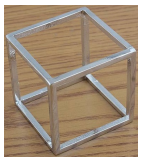


Figure 2

3. Find the equivalent resistance of the circuit shown in Figure 2.