Universidad Autónoma de Coahuila

Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

Subject	Practical optimization	Group	2
Degree	Masters in clean energy	Due for	09/09/2019
Exam / Homework	Homework 1: Preliminaries to the course	Registration #	***18601252***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***CÉSAR ULISES TAPIA SCHUMM***		

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. 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. Plot the following equations and inequalities on a Cartesian-coordinate plane.
   (a) $y = 9x^2 - 8$
   (b) $y = 9x^3 - 8x$
   (c) $9x + 7y + 2 = 0$
   (d) $9x + 9y + 3 \leq 0$
   (e) $5x^2 + 7y + 7x + 4 = 0$
   (f) $4x^2 + 6y + 3x + 2 \geq 0$
   (g) $3x^2 + 9y^2 + 5xy + 4x + 7y + 7 = 0$
   (h) $8x^2 + 6y^2 + 4xy + 5x + 9y + 8 < 0$

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Subject	Practical optimization	Group	2
Degree	Masters in clean energy	Due for	09/09/2019
Exam / Homework	Homework 1: Preliminaries to the course	Registration #	***10582428***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***FRANCISCO JAVIER ROJAS GONZÁLEZ***		

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. 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. Plot the following equations and inequalities on a Cartesian-coordinate plane.
   (a) $y = 8x^2 - 2$
   (b) $y = 8x^3 - 2x$
   (c) $2x + 4y + 9 = 0$
   (d) $2x + 9y + 2 \leq 0$
   (e) $2x^2 + 6y + 8x + 5 = 0$
   (f) $4x^2 + 9y + 3x + 6 \geq 0$
   (g) $2x^2 + 5y^2 + 2xy + 6x + 8y + 8 = 0$
   (h) $7x^2 + 7y^2 + 8xy + 7x + 8y + 2 < 0$

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Subject	Practical optimization	Group	2
Degree	Masters in clean energy	Due for	09/09/2019
Exam / Homework	Homework 1: Preliminaries to the course	Registration #	***11076907***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JOSE EDUARDO ROCHA 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. 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. Plot the following equations and inequalities on a Cartesian-coordinate plane.
   (a) $y = 8x^2 - 8$
   (b) $y = 8x^3 - 8x$
   (c) $9x + 8y + 2 = 0$
   (d) $6x + 7y + 4 \leq 0$
   (e) $6x^2 + 2y + 7x + 3 = 0$
   (f) $3x^2 + 5y + 6x + 9 \geq 0$
   (g) $5x^2 + 9y^2 + 3xy + 2x + 2y + 6 = 0$
   (h) $4x^2 + 6y^2 + 7xy + 5x + 8y + 8 < 0$

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Subject	Practical optimization	Group	2
Degree	Masters in clean energy	Due for	09/09/2019
Exam / Homework	Homework 1: Preliminaries to the course	Registration #	***09576464***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***ASDISDE FACCUSEH SUÁREZ***		

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. 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. Plot the following equations and inequalities on a Cartesian-coordinate plane.
   (a) $y = 6x^2 - 8$
   (b) $y = 6x^3 - 8x$
   (c) $7x + 9y + 3 = 0$
   (d) $3x + 6y + 5 \leq 0$
   (e) $6x^2 + 4y + 9x + 8 = 0$
   (f) $4x^2 + 5y + 6x + 9 \geq 0$
   (g) $5x^2 + 5y^2 + 3xy + 9x + 6y + 5 = 0$
   (h) $8x^2 + 4y^2 + 9xy + 5x + 6y + 8 < 0$

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Subject	Practical optimization	Group	2
Degree	Masters in clean energy	Due for	09/09/2019
Exam / Homework	Homework 1: Preliminaries to the course	Registration #	***11073201***
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***ARIEL DOMÍNGUEZ PACHECANO***		

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. 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. Plot the following equations and inequalities on a Cartesian-coordinate plane.
   (a) $y = 5x^2 - 6$
   (b) $y = 5x^3 - 6x$
   (c) $3x + 2y + 7 = 0$
   (d) $4x + 4y + 5 \leq 0$
   (e) $6x^2 + 3y + 6x + 2 = 0$
   (f) $4x^2 + 6y + 9x + 4 \geq 0$
   (g) $5x^2 + 6y^2 + 8xy + 9x + 4y + 2 = 0$
   (h) $4x^2 + 4y^2 + 8xy + 3x + 5y + 6 < 0$

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Subject	Practical optimization	Group	2
Degree	Masters in clean energy	Due for	09/09/2019
Exam / Homework	Homework 1: Preliminaries to the course	Registration #	???
Professor's name	Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JORGE ALBERTO AVILÉS CASTRO***		

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. 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. Plot the following equations and inequalities on a Cartesian-coordinate plane.
   (a) $y = 6x^2 - 2$
   (b) $y = 6x^3 - 2x$
   (c) $6x + 2y + 9 = 0$
   (d) $9x + 9y + 4 \leq 0$
   (e) $8x^2 + 8y + 6x + 2 = 0$
   (f) $8x^2 + 7y + 2x + 3 \geq 0$
   (g) $4x^2 + 7y^2 + 3xy + 8x + 4y + 5 = 0$
   (h) $8x^2 + 9y^2 + 2xy + 6x + 6y + 2 < 0$