



MITx: 15.053x Optimization Methods in Business Analytics



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Lecture 2

Lecture questions due Sep 20, 2016 at 19:30 IST

**Recitation 2****Problem Set 2**

Homework due Sep 20, 2016 at 19:30 IST



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PART A

(1/1 point)

The following feasible region described is convex:

$$\{(x, y) : x + y < 1, x > 0, y > 0\}$$

☒ True ☐ False*You have used 1 of 1 submissions***PART B**

(1/1 point)

The following feasible region described is convex:

$$\{(x, y) : x + y = 1, x > 0, y > 0\}$$

☒ True ✓

☐ False

You have used 1 of 1 submissions

PART C

(1/1 point)

The following feasible region described is convex:

$$\{(x, y) : |x| + |y| = 1\}$$

☐ True

☒ False ✓

You have used 1 of 1 submissions

PART D

(1/1 point)

The following feasible region described is convex:

$$\{(x, y) : (x, y) \neq (0, 0)\}$$

☐ True☒ False ✓

You have used 1 of 1 submissions

PART E

(1/1 point)

The feasible region described by the following graph is convex:

☐ True☒ False ✓

You have used 1 of 1 submissions

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