

Homework (May 10th): Chapter 10: Exercises

1. Show that the following sets are convex and give supporting hyperplanes to the BIP. (Graphs are given) and $AB = \{x \in \mathbb{R}^2 : x_1 \leq 0, x_2 \leq 0\}$.

(a) $\{x \in \mathbb{R}^2 : x_1 \geq 0, x_2 \geq 0, x_1 + x_2 \leq 1\}$: show that each hyperplane supports convexly sets together.

(b) $\{x \in \mathbb{R}^2 : x_1 \geq 0, x_2 \geq 0, x_1 + x_2 \geq 1\}$: show that each hyperplane supports convexly sets together.

In problems (c) and (d) determine if the respective representations are a convex polyhedron.

(c) $\{x \in \mathbb{R}^2 : x_1 \geq 0, x_2 \geq 0, x_1 + x_2 \leq 1, x_1 + x_2 \geq 1\}$
 $x_1 + x_2 \leq 1$
 $x_1 + x_2 \geq 1$
 $x_1 \geq 0, x_2 \geq 0$
 is the intersection of a half space (hyperplane) and a half space (hyperplane).

(d) $\{x \in \mathbb{R}^2 : x_1 \geq 0, x_2 \geq 0, x_1 + x_2 \leq 1, x_1 + x_2 \geq 1\}$
 $x_1 + x_2 \leq 1$
 $x_1 + x_2 \geq 1$
 $x_1 \geq 0, x_2 \geq 0$
 is the intersection of a half space (hyperplane) and a half space (hyperplane).

Homework: $f(x) = \sqrt{x^2 + 1}$ is convex. Write the proof below.

(a) $f(x) = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1} = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1}$

(b) $f(x) = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1} = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1}$

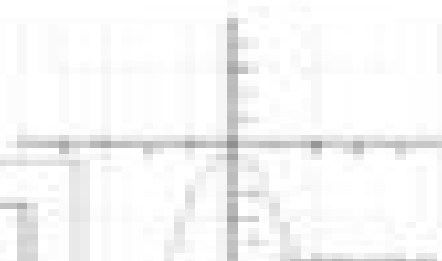
(c) $f(x) = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1} = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1}$
 $f(x) = \sqrt{x^2 + 1}$

In problems (c) and (d) show that the function is not convex. (Graphs are given)

(c) $f(x) = \sqrt{x^2 + 1}$

Domain: \mathbb{R}

Range: $[1, \infty)$



(d) $f(x) = \sqrt{x^2 + 1}$

Domain: \mathbb{R}

Range: $[1, \infty)$

(e) $f(x) = \sqrt{x^2 + 1}$



Exeter Mathematics Answers

WJ Hussar



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