

PROBLEMS 10-12

10. The ℓ^1 -Norm and the ℓ^2 -Norm

The ℓ^1 -norm and the ℓ^2 -norm are two different ways of measuring the size of a vector in $\mathbb{R}^n$.

- (a) Show that the ℓ^1 -norm and the ℓ^2 -norm are both norms on $\mathbb{R}^n$. (You may use the fact that the ℓ^1 -norm is a norm on $\mathbb{R}^n$.)

(b) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (You may use the fact that the ℓ^1 -norm and the ℓ^2 -norm are both norms on $\mathbb{R}^n$.)

(c) Let $x = (x_1, x_2, \dots, x_n) \in \mathbb{R}^n$. Show that $\|x\|_1 \leq \|x\|_2 \leq \sqrt{2} \|x\|_1$. (10 points)

(d) Let $x = (x_1, x_2, \dots, x_n) \in \mathbb{R}^n$. Show that $\|x\|_2 \leq \|x\|_1 \leq \sqrt{2} \|x\|_2$. (10 points)

- (e) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (10 points)

(f) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (10 points)

$$\|x\|_1 \leq \|x\|_2 \leq \sqrt{2} \|x\|_1$$

(g) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$.

- (h) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (10 points)

(i) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (10 points)

(j) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (10 points)

(k) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (10 points)

- (l) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (10 points)

(m) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (10 points)

- (n) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (10 points)

(o) Show that the ℓ^1 -norm and the ℓ^2 -norm are not equivalent norms on $\mathbb{R}^n$. (10 points)

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