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Functions on

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1.1 Prove that

$\|x\| \leq \sum_{i=1}^n |x_i|$

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ij Proof. If  $e_1, e_2, \dots, e_n$  is the usual basis on  $\mathbb{R}^n$ , then we can write  $x = x_1 e_1 + x_2 e_2 + \dots + x_n e_n$  and thus  $\|x\| = \sqrt{\sum_{i=1}^n x_i^2} = \sqrt{\sum_{i=1}^n |x_i|^2} = \sqrt{\sum_{i=1}^n |x_i| |x_i|} = \sqrt{\sum_{i=1}^n |x_i|} \sqrt{\sum_{i=1}^n |x_i|}$ . 1.2 When does equality hold in Theorem

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So  $a < f < g$

$&gt; 0$  since

the integrand

is always non-

negative and is

positive on some

subinterval of

$[a; b]$ .

Expanding

out gives  $a < f < 2$

$2 < a < f < g < 2 < a < g$



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2 &gt; 0 for all . Since the quadratic has no solutions, it must be that its discriminant is negative. c. Let  $a \neq 0, b \neq 0 \dots$

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4 CHAPTER 1

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FUNCTIONS ON  
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Exercise 8

(1-8). If  $x, y \in \mathbb{R}^n$  are non-zero, the angle between  $x$  and  $y$ , denoted  $\theta(x, y)$ , is defined as  $\arccos \frac{x \cdot y}{\|x\| \|y\|}$ , which makes sense by Theorem 1-1 (2). The linear

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is angle

preserving if  $T$

is 1-1, and for

$x, y \neq 0$  we have

$\frac{f(Tx) \cdot Ty}{Df \cdot x} \cdot$

a. Prove that if

$T$  is norm

preserving, then

$T$  is angle

preserving. b.

If there is a

basis.  $x$

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prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be

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