Selected Problems Chapter 3 Linear Algebra Done Wrong, Sergei Treil, 1st Edition

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Problem Uniqueness of Determinant. Let $C \in \mathbb{R}^n$ be a column vector, i.e. $C = (c_i)_{i=1,\dots,n}$.

$(c_i)_{i=1,\dots,n}$.		
Show that if $D:(\mathbb{R}$	$(2^n)^n \to \mathbb{R}$ satisfies	
	multi-linearity.	(1)
	anti-symmetry.	(2)
	normalization.	(3)
then		

 $D(C_1,\ldots,C_n) =$

Proof.