
Exercise 1 Let B be a parallelepiped determined by vectors $\mathbf{u}$, $\mathbf{v}$, and $\mathbf{w}$ in $\mathbb{R}^3$. Suppose the volume of B is 10 cubic units. Let B' be a parallelepiped determined by $-\mathbf{u}$, $2\mathbf{v}$, and $\mathbf{w} + \mathbf{u}$. Find the volume of B' .

volume of $B' = \dots\dots$ cubic units