

Linear Algebra - L^AT_EX HW 1

Mark McClure

This 20 point homework is due Thursday, September 26. I expect you to type your solution in L^AT_EX print it out and turn in the hard copy.

The Problem:

Let \vec{v}_1 and \vec{v}_2 be vectors in \mathbb{R}^n . Show that

$$\langle \{\vec{v}_1, \vec{v}_2\} \rangle = \langle \{2\vec{v}_1 - \vec{v}_2, \vec{v}_1 + 2\vec{v}_2\} \rangle.$$