

**Exercise 1** Let  $\vec{\mathbf{u}} = \langle 1, -2 \rangle$  and  $\vec{\mathbf{v}} = \langle 1, 1 \rangle$  be two vectors. Find the vector  $\vec{\mathbf{x}}$  such that  $\vec{\mathbf{u}} + \vec{\mathbf{x}} = 2\vec{\mathbf{v}} - \vec{\mathbf{x}}$ .

$$\vec{\mathbf{x}} = \left\langle \boxed{1/2}, \boxed{2} \right\rangle$$

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