

**Exercise 1** Let  $\vec{\mathbf{u}} = \langle 1, -2 \rangle$  and  $\vec{\mathbf{v}} = \langle 1, 1 \rangle$  be two vectors. Find the vector  $2\vec{\mathbf{u}} - 3\vec{\mathbf{v}}$ .

$$2\vec{\mathbf{u}} - 3\vec{\mathbf{v}} = \langle \boxed{-1}, \boxed{-7} \rangle$$

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