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

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