

1.  -/2 points

 My Notes  Ask Your Teacher

Consider the vector space with basis $B = \{\mathbf{w}_1, \mathbf{w}_2\}$ where $\mathbf{w}_1 = (-2, 2)$ and $\mathbf{w}_2 = (-2, -2)$. Determine if the vector $\mathbf{v} = (2, -10)$ lies in the span of B and, if so, determine the values of c_1 and c_2 such that $c_1\mathbf{w}_1 + c_2\mathbf{w}_2 = \mathbf{v}$. If \mathbf{v} is not in the span of B , enter DNE in all entries.

$c_1 =$

$c_2 =$

Submit Answer

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Practice Another Version

2.  -/2 points

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Consider the vector space with basis $B = \{\mathbf{w}_1, \mathbf{w}_2\}$ where $\mathbf{w}_1 = (-3, -1, -1)$ and $\mathbf{w}_2 = (-1, -2, -1)$. Determine if the vector $\mathbf{v} = (4, 3, 2)$ lies in the span of B and, if so, determine the values of c_1 and c_2 such that $c_1\mathbf{w}_1 + c_2\mathbf{w}_2 = \mathbf{v}$. If \mathbf{v} is not in the span of B , enter DNE in all entries.

$c_1 =$

$c_2 =$

3.  -/2 points

 My Notes  Ask Your Teacher

Consider the vector space with basis $B = \{\mathbf{w}_1, \mathbf{w}_2\}$ where $\mathbf{w}_1 = (3, -2, -1)$ and $\mathbf{w}_2 = (1, 0, 0)$. Determine if the vector $\mathbf{v} = (8, -6, -3)$ lies in the span of B and, if so, determine the values of c_1 and c_2 such that $c_1\mathbf{w}_1 + c_2\mathbf{w}_2 = \mathbf{v}$. If \mathbf{v} is not in the span of B , enter DNE in all entries.

$c_1 =$

$c_2 =$