

Math 304 Section 1 Quiz 19

8/11/16

Name: _____

Let $X = \left\{ \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}, \begin{bmatrix} -1 \\ 2 \\ -1 \end{bmatrix} \right\}$. Note that X is an orthogonal set.

Find the orthogonal projection of $\begin{bmatrix} 2 \\ 3 \\ 1 \end{bmatrix}$ onto $\text{Span}(X)$.

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