Attendance Quiz for Lecture 21

NAME: (print!)	Section:
E-MAIL ADDRESS: (print!)	

1. (a) Apply the Gram-Schmidt process to replace the given linearly independent set S by an orhogonal set of non-zero vectors with the same span.

$$\mathcal{S} = \left\{ \begin{bmatrix} 1 \\ -2 \\ 1 \end{bmatrix} \quad , \quad \begin{bmatrix} 1 \\ -1 \\ 0 \end{bmatrix} \right\}$$

(b) Obtain an orthornormal set with the same span as \mathcal{S} .