













We construct
$$X_3$$
 actingword to X_2 by the Grown Schwidt process:

$$X_3 = \begin{bmatrix} -1 \\ -1 \\ -2 \end{bmatrix} = \begin{bmatrix} -1 \\ -1 \\ -2 \end{bmatrix}$$
We conclude that $x_1^2 = \frac{1}{2} = \frac{1$