UD213319 - Mier Martoto, Juan Francisco 16 (11, 10 1. Paro 1: Espacio vectorial B. PXBmi = XBmi Como la certique bare er la bare canónica, Paro 2: Especio rectorial 133. Q BBB3= 7BB3 2 -2), directamente ya que la bare antigue 2 -2) en la canônica.  $Q=\begin{pmatrix} 2\\0\\1 \end{pmatrix}$ Paro 3: Aplicación lineal AXBB = 7873 0 CHXBINY = 7/81,23? APX'8'04 = Q7'6'103 Q AP X'B'm4= 1'B' M3 M= a-1 AD 1 2-2 0 0 1-1 0 0 -3 2 1 010-1-2 2 0 | -2 -6 5 | Fz=Fz=Fz | 1 1 0 | -1 -2 2 | 0 0 1 -1 -3 2 | 0 F1=F1-2F3 1 0000-1  $H = \begin{pmatrix} 0 & -2 & 1 \\ -1 & -2 & 2 \\ -1 & -3 & 2 \end{pmatrix} \begin{pmatrix} -3 & -1 & 9 & -2 \\ -2 & -1 & 0 & -2 \\ -5 & -3 & 7 & -5 \end{pmatrix} \begin{pmatrix} 1 & 0 & 1 & -1 \\ -1 & -1 & 0 & 1 \end{pmatrix} = \begin{pmatrix} -1 & -1 & -1 & -1 & -1 \\ -3 & -3 & -1 & -1 & -1 & -1 & -1 \\ -1 & -2 & -1 & -2 & -1 & -1 & 0 & 1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \end{pmatrix}$ 

