

(a) If one period offers 1, that yeafer one doese of 
$$f$$
:  $f$ :

$$\begin{bmatrix}
x_1^2 & x_1 \\
x_2^2 & x_3
\end{bmatrix} = \begin{bmatrix}
y_1 \\
y_2 \\
y_3 \\
y_4
\end{bmatrix} = \begin{bmatrix}
y_1 \\
y_4
\end{bmatrix} = \begin{bmatrix}
y_1 \\
y_2 \\
y_4
\end{bmatrix} = \begin{bmatrix}
y_1 \\
y_4
\end{bmatrix} = \begin{bmatrix}
y_1$$



