$$B = \begin{bmatrix} 1 & 0 \\ -0.12 & 1 \end{bmatrix}$$
 and the inverse  $\longrightarrow B^{-1} = \begin{bmatrix} 1 & 0 \\ 0.12 & 1 \end{bmatrix}$ 

Let's recalculate the reduced form parameters:

$$B^{-1}G = A_0$$
 and  $B^{-1}G = A_1$ 

$$A_0 = \begin{bmatrix} 1 & 0 \\ 0.2 & 1 \end{bmatrix} \begin{bmatrix} 0.1 \\ -0.2 \end{bmatrix} = \begin{bmatrix} 0.1 \\ -0.18 \end{bmatrix}$$

$$A_{1} = \begin{bmatrix} 1 & 0 \\ 0_{1} & 0_{1} \end{bmatrix} \begin{bmatrix} 0_{1}3 & 0_{1}3 \\ 0_{1}1 & 0_{1}4 \end{bmatrix} = \begin{bmatrix} 0_{1}3 & 0_{1}3 \\ 0_{1}16 & 0_{1}46 \end{bmatrix}$$

Now, let's calculate the responses of Yt and Yth to a shock in Et. det's see that:

$$\begin{bmatrix} 1 & 0 \\ 0_1 \mathbf{2} & 1 \end{bmatrix} \begin{bmatrix} \varepsilon_{Yt} \\ \varepsilon_{2t} \end{bmatrix} = \begin{bmatrix} \varepsilon_{1t} \\ \varepsilon_{2t} \end{bmatrix} \begin{bmatrix} \varepsilon_{1t} \\ \varepsilon_{2t} \end{bmatrix} \begin{bmatrix} \varepsilon_{Yt} \\ \varepsilon_{1t} \\ \varepsilon_{2t} \end{bmatrix} = \begin{bmatrix} \varepsilon_{1t} \\ \varepsilon_{2t} \end{bmatrix}$$

Now we can interpret end directly. We also know that with cholesky decomposition,  $L=B^{-1}$ 

MA representation of 3 the model:

$$\frac{\partial x_{t}}{\partial \varepsilon_{t}} = \begin{bmatrix} \frac{\partial Y_{t}}{\partial \varepsilon_{Y_{t}}} & \frac{\partial Y_{t}}{\partial \varepsilon_{Z_{t}}} \\ \frac{\partial Z_{t}}{\partial \varepsilon_{Y_{t}}} & \frac{\partial Z_{t}}{\partial \varepsilon_{Y_{t}}} \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0.12 & 1 \end{bmatrix}$$
(at impact) 
$$\frac{\partial Z_{t}}{\partial \varepsilon_{Y_{t}}} & \frac{\partial Z_{t}}{\partial \varepsilon_{Z_{t}}} \end{bmatrix}$$

Hence, 
$$\frac{\partial Y_t}{\partial \epsilon_{tt}} = 0$$

we were already expecting this result as this comes from the restriction we have imposed.

At impact, a shock in y to doesn't affect 4.

For the first step:

$$\frac{\partial x_{t+1}}{\partial \varepsilon_{t}} = \begin{bmatrix} \frac{\partial y_{t+1}}{\partial \varepsilon_{t+1}} & \frac{\partial y_{t+1}}{\partial \varepsilon_{t+1}} \\ \frac{\partial z_{t+1}}{\partial \varepsilon_{t+1}} & \frac{\partial z_{t+1}}{\partial \varepsilon_{t+1}} \end{bmatrix} = A_1 L$$

$$\begin{bmatrix} 0.13 & 0.13 \\ 0.16 & 0.146 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 0.12 & 1 \end{bmatrix} = \begin{bmatrix} 0.36 & 0.3 \\ 0.252 & 0.146 \end{bmatrix}$$

A one standar devication son shock in 24 will lead to Vapantamere an increase of 0,3 units in Ytti.

This makes sense once that although it, eartemporaneously doesn't affect yt, the past & values of the variable do impact.