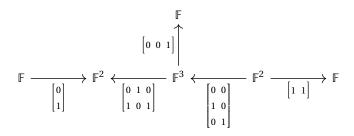
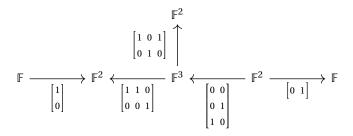
1 11.1



2 11.2



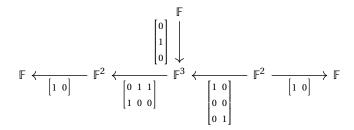
3 20.1

$$\mathbb{F} \xleftarrow{\begin{bmatrix} 1 & 1 & 1 \end{bmatrix}} \qquad \mathbb{F}^2 \xrightarrow{\begin{bmatrix} 0 & 0 \\ 1 & 0 \\ 0 & 1 \end{bmatrix}} \mathbb{F}^3 \xleftarrow{\begin{bmatrix} 0 & 1 \\ 1 & 0 \\ 0 & 0 \end{bmatrix}} \mathbb{F}^2 \xleftarrow{\begin{bmatrix} 0 \\ 1 \end{bmatrix}}$$

4 20.2

$$\mathbb{F} \xleftarrow{\begin{bmatrix} 0 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix}} \xrightarrow{\begin{bmatrix} 0 & 1 \\ 1 & 0 & 1 \end{bmatrix}} \xrightarrow{\mathbb{F}^2} \mathbb{F}^2 \xleftarrow{\begin{bmatrix} 0 & 0 \\ 0 & 1 \\ 1 & 0 \end{bmatrix}} \mathbb{F}^2 \xleftarrow{\begin{bmatrix} 1 \\ 0 \end{bmatrix}}$$

5 31.1



6 31.2

$$\mathbb{F} \xleftarrow{\begin{bmatrix} 0 & 0 \\ 0 & 1 \\ 0 & 1 \end{bmatrix}} \mathbb{F}^2 \xleftarrow{\begin{bmatrix} 0 & 1 & 0 \\ 0 & 1 \\ 0 & 1 \end{bmatrix}} \mathbb{F}^3 \xleftarrow{\begin{bmatrix} 0 & 1 \\ 1 & 0 \\ 0 & 0 \end{bmatrix}} \mathbb{F}^2 \xrightarrow{\begin{bmatrix} 1 & 0 \end{bmatrix}} \mathbb{F}$$