Thm The coefficient of mg in en is the # of 0-1 matrices with row sum 1 and column sum 1.

EX Express $e_{(2,1,1)}$ in the monomial basis

The answer is
$$M\begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 12 \\ 12 \end{bmatrix}$$

- meaning
$$e_2 \cdot e_1 \cdot e_1 = m_{(3,1)} + 2m_{(2,2)} + 5 m_{(2,1,1)} + 12 m_{(1,1,1,1)}$$

Fundamental Theorem of Symmetric Functions

2ea/2+n3 is a basis for the vector space of symmetric functions of degree n.

Def Let Ba, m be the set of "brick tabloids" of comment 1 and shape m.

EX Shape
$$\mu = (6,4,4)$$

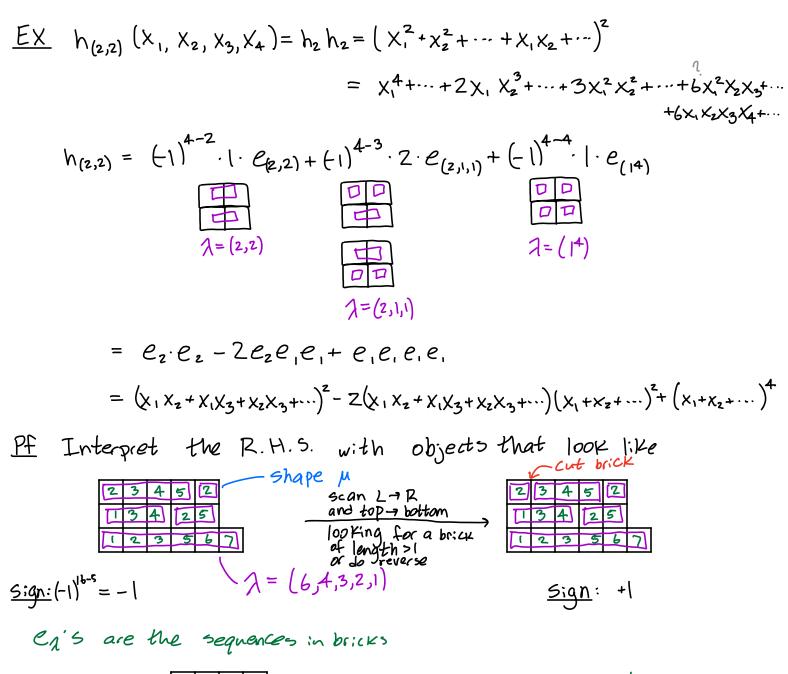
Content $(3,3,2,2,2,1,1) = \lambda$

(lengths of br: CK5)

$$\underline{\mathsf{EX}} \quad \mathcal{B}_{(2,1,1),(3,1)} = \left\{ \begin{array}{c} \mathbf{D} \\ \mathbf{D} \end{array} \right\}$$

Thm
$$h_{\mu} = \sum_{A \vdash n} (-1)^{n-\ell(A)} |B_{A,\mu}| e_{\lambda}$$

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Fixed point		weakly decreasi	ng sequence! - hu
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