

$$X_0 = \alpha S_0 + \beta V_0 - (\alpha S_0 + \beta V_0)$$

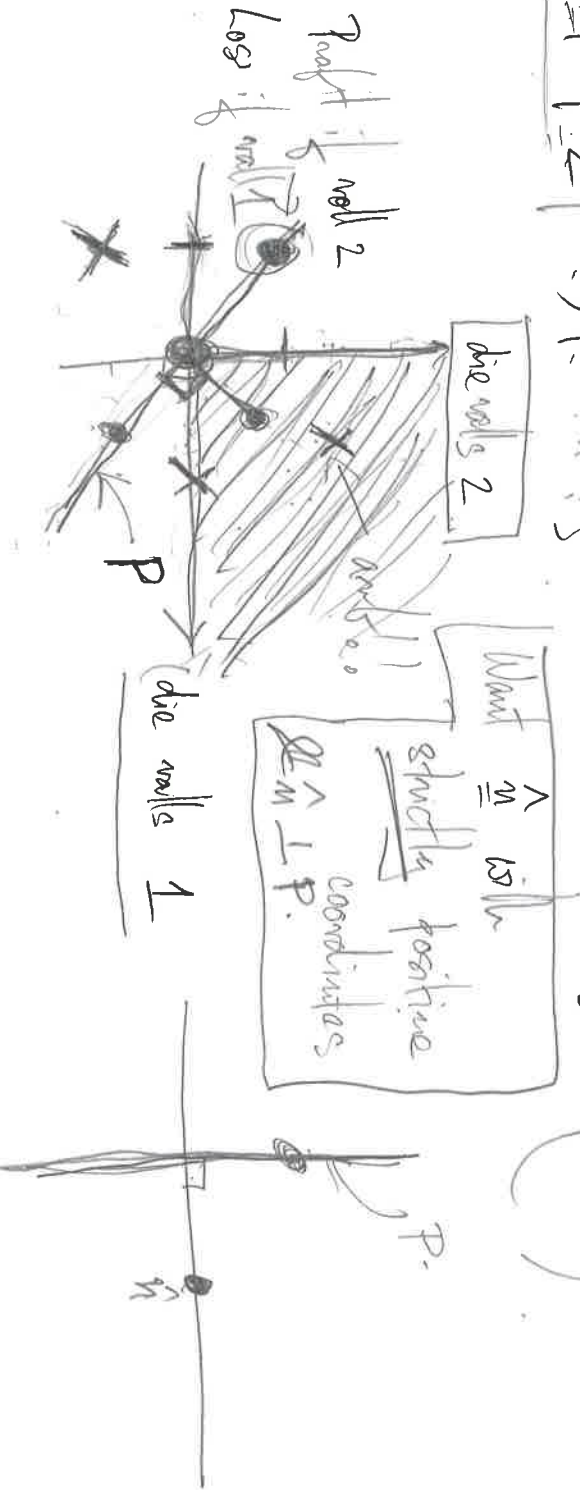
$$X_1 = \begin{pmatrix} X_1(1) \\ X_1(2) \\ X_1(3) \end{pmatrix} = \alpha \begin{pmatrix} 1/2 \\ 1 \\ 2 \end{pmatrix} + \beta \begin{pmatrix} \alpha \\ \alpha \\ 1 \end{pmatrix} - (1+\alpha) (\alpha S_0 + \beta V_0) \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$X_1 = \alpha u_1 + \beta u_2$$

$$u_1 = \begin{pmatrix} 1 \\ 1 \\ 2 \end{pmatrix}$$

$$P = \{ \alpha u_1 + \beta u_2 \mid \alpha, \beta \in \mathbb{R} \}$$

$$u_2 = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$



$$P(X=0, Y=0) = P(X=0) P(Y=0)$$
$$P(X=0, Y=1) = P(X=0) P(Y=1)$$

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$$V_1(\#) = \text{any } _$$
$$V_1(T, *) = _$$