

## Contents

### 1 TODO Problem

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Final Exam will be handwritten problems, no **R**.

	v1	v2	v3	v4
v1	0	1/2	1/3	1/2
v2	1/3	0	1/3	0
v3	1/3	1/2	0	1/2
v4	1/3	0	1/3	0

$$\vec{p}_0 = (1, 0, 0, 0) \tag{1}$$

$$\begin{aligned} p_{2_1}^{\vec{}} &= 0 \cdot 1 && + 1/2 \cdot 0 + 1/3 \cdot 0 && + 1/2 \cdot 0 \\ p_{2_2}^{\vec{}} &= 1/3 \cdot 1 && + 1/3 \cdot 0 + 1/3 \cdot 0 && + 0 \cdot 0 \\ p_{2_3}^{\vec{}} &= 1/3 \cdot 1 && + 1/2 \cdot 0 + 0 \cdot 0 && + 1/2 \cdot 0 \\ p_{2_4}^{\vec{}} &= 1/3 \cdot 1 && + 0 \cdot 0 + 0 \cdot 1/3 && + 0 \cdot 0 \end{aligned}$$