3.5 matrices of Relations

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is \$0 = 5 in A 1540

$$A^{2} = \begin{cases} 0 & 0 & 12 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{cases}$$

$$A^{2} = \begin{cases} 0 & 0 & 12 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{cases}$$
 when i, J to m A? transitive

$$A = \begin{pmatrix} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix} A^{2} = \begin{pmatrix} 2 & 0 & 3 & 0 \\ 0 & 0 & 0 & 0 \\ 2 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix} \quad \text{thu i, j $ \neq .0 $ in $ A$ i. transitive}$$
Chapter 3 - 05a