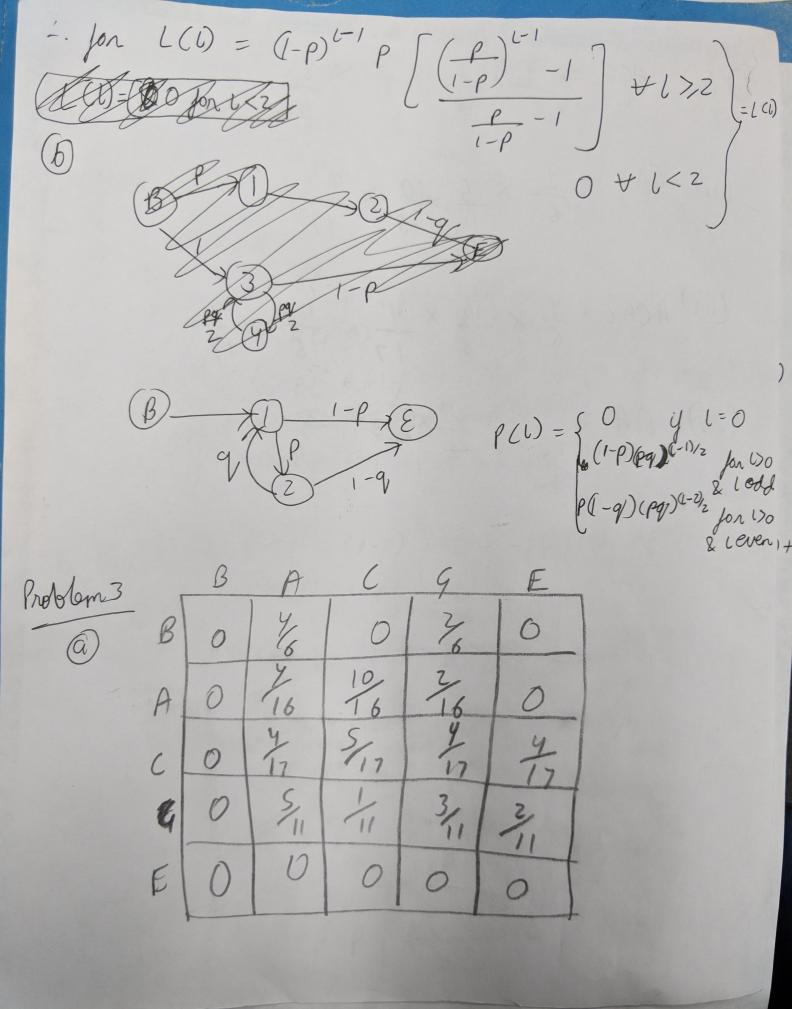
broblem 2

$$\begin{array}{l} (C) = 0 \\ (C^{2}) = \beta(1-\beta) + \beta(1-\beta) \\ (C^{3}) = (1-\beta) + \beta(1-\beta) \\ (C^{3}) = (1-\beta) + \beta(1-\beta) \\ (C^{3}) = (1-\beta)^{2} \beta(1-\beta) + (1-\beta)(\beta)(\beta)(\beta)(\beta) \\ (C^{3}) = (1-\beta)^{3} \beta(1-\beta) + (1-\beta)^{2} \beta(1-\beta) \\ (C^{3}) = (1-\beta)^{3} \beta(1-\beta) + (1-\beta)^{2} \beta(1-\beta) + (1-\beta)(1-\beta) \\ (C^{3}) = (1-\beta)^{3} \beta(1-\beta) + (1-\beta)^{2} \beta(1-\beta) + (1-\beta)(1-\beta) \\ (C^{3}) = (1-\beta)^{3} \beta(1-\beta) + (1-\beta)^{2} \beta(1-\beta) + (1-\beta)(1-\beta) \\ (C^{3}) = (1-\beta)^{3} \beta(1-\beta) + (1-\beta)^{2} \beta(1-\beta) \\ (C^{3}) = (1-\beta)^{3} \beta(1-\beta) + (1-\beta)^{2} \beta(1-\beta) \\ (C^{3}) = (1-\beta)^{3} \beta(1-\beta) + (1-\beta)^{3} \beta(1-\beta) + (1-\beta)^{3} \beta(1-\beta) \\ (C^{3}) = (1-\beta)^{3} \beta(1-\beta) + (1-\beta)^{3} \beta(1-\beta)$$



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(ii)
$$4AC = \frac{2}{6} \times \frac{5}{11} \times \frac{10}{10} \times \frac{4}{17} = 0.02228163992$$

(iii)
$$A(AC = \frac{4}{6} \times \frac{10}{16} \times \frac{4}{17} \times \frac{10}{16} \times \frac{4}{17} = 0.01441753171$$