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7. Based on our analysis of the branching chain and the graphs above, show that  $q$  is the smallest solution in  $(0,1]$  and prove the following results: If  $m \leq 1$ , so that on average, one or fewer new customers arrive for each customer served, then  $q=1$ , so the queue eventually empties with probability 1. The chain is recurrent. a.

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