

Math 101 Homework

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Complete the following problems. Fully justify each response.

1. Think of another scenario in which a percolation with equal edge probability might make sense (other than in an epidemiological network). Explain.
2. For the graph drawn below, calculate the clustering coefficient $c(v)$ for each vertex v . Recall,

$$c(v) = \frac{\text{number of edges between neighbors of } v}{\text{number of pairs of neighbors of } v}.$$

