What is the expected number of edges in $G(8, \frac{1}{2})$?
What is the expected number of triangles in $G(8, \frac{1}{2})$?
What is the expected number of paths of length 3 (and on 4 vertices) in $G(8, \frac{1}{2})$?
Is Markov inequality true for all random variables that take negative values?