Complex Networks: Quiz #14

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Problem 1

Consider a configuration model network that has vertices of degree 1, 2, and 3 only, in fractions p1, p2 and p3, respectively

Answer 1

Problem 2

Find the value of the critical vertex occupation probability ψ_c at which site percolation take place

Answer 2

Problem 3

Show that there is no giant cluster for any value of the occupation probability ψ if $p_1 > 3p_3$

Answer 3

Problem 4

Answer 2