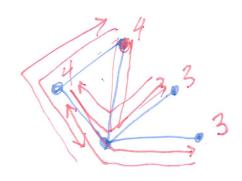
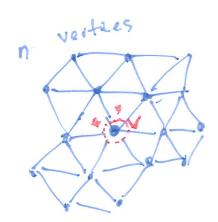
Clustering Coefficient.



troples = 1. # paths of height 2 = 14

Triangular

Lattice



approximation - ignore boundary

- "assume that behaviour

same if we look at

internal vertex"

#triangles
6 triangles
muident with
each vertex.

#triangles. = 2n

Secause each 1 counted 3 times.

parths of legth two = 30n

= 30 #paths of light two = 30n CC = 12n = 0.4.

zalso anedge. # two paths (which are closed).

Random Graph Process n vertices on each edge place, rand(). . uniformly chosen real in [0,1]. edge appears. A:0.02 += 0.1 4:0 stop at time t: · each edge has probability t of being present. E[0,1]

Erdős - Renyi e a reltices , each par soned with probability P. expected degree C = (n-1) P Clusters = the two paths = $\frac{n^3p^3}{n^3p^2} \sim P$.

Preferential attachment m edge model time step i: Pro! realistic, power-law degree distribution · analysis not too bad.

l.