Random graph 
$$f(N,p)$$
  $p = \frac{\alpha}{N^2}$   $\alpha > 0, \approx 20$ 

$$(u) = \rho(N-1)$$

$$= \frac{q}{N^2}(N-1) = \frac{q}{N^{2-1}} - \frac{q}{N^2}$$

$$\langle u \rangle = 2$$
 giant comp.

$$\langle h \rangle = \frac{q}{N} - \frac{q}{N^2} = 0$$
 No giat comp.

920 8=0.5

$$(4) = a\overline{N} - \underline{a} = \infty$$
 giont comparat

$$\mathcal{L}.$$

$$(h) = \frac{q}{N^{2\eta}} - \frac{q}{N^2} = \begin{cases} \infty & z=0 \\ \infty & z \geq 0, 2 \leq 1 \end{cases}$$

$$\alpha & z=1 \\ 0 & z > 0 \end{cases}$$

## 3. Cotral when (47=1