```
P(M+2)=P(M+1) They all M+3)
P(M+2)=P(M+1) They all M(M+3) (1 1 2)
P(M+2)=P(M+1) They all M(M+3) (1 1 2)
P(M-1)= (M+1)(M+3)... (M+1) (M+1)

= (M+1)(M+3)... (M+1) (M+1)

= (M+1)(M+3)... (M+1)
 7.1
              717(17+1)
=4(4+1)(4+2)
         A node with degree K is k times more likely to be
7.4
        ct the end of a vandomly dosen edge than a node
        with degree 1, because it has k edges. This leads to
                    Q(W) or KP(K)
        We won't to turn Q(W) into a proper probability
         distribution, which is defined as
                       En Q(4)=1
         Because QULI is proportional to LPCK, we can normalize
         it to achieve the desired distribution. As we normalize
        by dividing by C, we set EPCH) = 1, lor some C
                       ٤ 4 LP(4) = <47
        We can set C as 247. Which means we will get
         the following
                      2 Q(h) = 2 2 2 48(h)=1
        Theelion the expression is
                          QLL)= ZETP(h)
        We start by resulting the previous formula as
7.6
                      لاد لد للالله = فحر لد. تشكه الالمه حشر محد لدكالله
         As we have got the second moment degree, defined as
                      En しとPCh)=くらう
        The condition Exhault) = 2 becomes
                       Chi 32
        So if this 42 percolation vill not occur due to lack of
        hubs. So the throshold, or luner bound, can be delined as
                     <!-->
         7.6
        In an ER grade, the probability of an edge existing
         between two wodes is volated to LLY CS
                       くhフ=pN
         At the percolation threshold
                  Po = 42 = N
         1. Go(1)= EPCLO, which is a probability distribution, so
7.D
            G_(1)=1
        2. Go(1)= 1/2 (((-1)... (10-n+1) P(W)= 2 1/2 P(W)= < 1/2>
         3. G.(x)= = 4+1 P(h+1)x = 4+2 (h+1)P(h+1)x
                   イレラ をしPCにかんい
           The derivative of Goiss= 2 h Plus 2 50 we got the hPlus 2 = 6017, as his = 611)
        4. Approads 1: G'(x)= G'(74)G'(1)-G'(x)G'(1) <127<47-24762>
                by substituting re.
           Approach 2: 6,(17= 2 F(1) 1 = 2 zler P(2)= 2 zly P(2)
                by beling the derivative with vespect to k, we get
                         6, W= ZETP(2)
                So Plz) would need to be
                         Pはつこえくピフーくレン
7.9
         The function is defined as
                       Golzo= EP(Le)zk
        Where the probability distribution is poisson, 50 P(4)=5447ex
        Which sives us (curry course)
        hoing taylor we get cure to chrosh
        By substitution we get e^{-2ky} substitution we get e^{-2ky} e^{-2ky} e^{-2ky}
        The function is defined as Global Flux Plux 12ch
حا. 7
        We will start with Fox) and the distribution P
                   F(x) = Q(12+1) = 447. (474)
        Which we can sindify to we know the francisco to the
        We are now in the same position as previously, so

G. (2) = e E To! = e
```