3pg. 1-1

This woben: HO

$$\frac{\cdot n!}{9!(n-9)!} + \frac{n!}{8!(n-8)!} = \frac{n!(n-8) + n! \cdot 9}{9!(n-8)!} =$$

$$\frac{3!}{9!} \frac{(n-8+9)}{(n-8)!} - \frac{n!}{9!} \frac{(n+1)}{(n-8)}$$

$$C_{n+1}^{3} = \frac{G_{n+1}!}{g!(n-3)!}$$

NI Pennes ypalmenne

$$\frac{n!}{(h-5)!} = \frac{20n!}{(n-3)!}$$

$$(h-5)^{2}$$
  $(h-3)^{2}$ 

$$003: \begin{cases} n-5 > 5 \\ n-3 > 0 < = 7 \end{cases} \begin{cases} n > 5 \\ n \in N \end{cases}$$

$$n!(n-4)(n-3)-20n!=0$$

$$n!((n-4)(n-9)-20)=0$$

3Ag. 1-2

Jaicoberous H.D.

N3 Pennos grabuence
$$5C_{2n}^{n-1} = 3C_{2n-1}^{n}$$

$$5 \frac{(2n)!}{(n-0)!(2n-n+1)!} = \frac{1}{n!} \frac{(2n-1)!}{(2n-1-n)!}$$

$$\frac{5(2n)!}{(n-1)!(n+1)} = \frac{8(2n-1)!}{n!(n-1)!}$$

$$5(2n)! = f(2n-1)!$$

$$5(2n)! = f(2n-1)!$$
  
 $n!(n+1) = n!$ 

$$5(2n)! = 3(n+1)(2n-1)!$$

$$5(2n)(2n-1)! = g(n+1)(2n-1)!$$
 [:  $(2n-1)!$ 

$$P(A) = \frac{m}{h} = \frac{9}{30} = \frac{1}{10} = 0,1$$

$$P_{B_1} = \frac{12}{48} = 0.25 \; ; \; P_{B_2} = \frac{5}{48} = \frac{5}{12} \; ; \; P_{B_3} = \frac{16}{48} = \frac{1}{2}$$

$$P_{C_1} = \frac{12}{48} = 0.25 \; ; \; P_{B_2} = \frac{5}{48} = \frac{1}{12} \; ; \; P_{B_3} = \frac{16}{48} = \frac{1}{2}$$