## Homework I Marko Taleski 890201031

Prove:  $1.2 \pm 2.3 \pm 2.3$ 

Now we continue with proving Pato be true

Page 1. (1+1) = 1.11+1/11+21

1.2 = 1.2-3

2 = 2

And lastly we prove that Pa+1 to be true

 $P_{n+1}: 1\cdot 2 + 2\cdot 3 + \cdots + n \cdot (n+1) + (n+1) \cdot (n+2) = \frac{n \cdot (n+1)(n+2)}{3} + (n+1)(n+2)$ 

 $12+2\cdot3+\dots+n(n+1)+(n+1)(n+2)=(\frac{n}{3}+1)(n+1)(n+32)$  =(n+1)(n+32)(n+3)

With Proving that Po, P1, Pn+1 we to be thue, we prove that the proposition is true