1-cow as: themetic: Joli \frac{\gamma^2-\frac{7}{1}}{\chi\_2-\chi\_1} an = a, +(n-1)d Geor-1-ic: 8= ( 32) x2-x1 Jan= a, 2n-1 (f/n/<1 -> S= 2.7)

 $\frac{2}{2} = \frac{3}{2} = 1$ 

$$\int_{n=5}^{60} 3 = 3(60-5+1)$$

$$\int_{n=5}^{50} 4 = 4(50)$$

$$\int_{n=1}^{2} 4 = 200 = (2-1)+(4-1)$$

$$\int_{k=1}^{4} (2k-1) = 1+2+3+2$$

$$k=161$$

$$\frac{x}{x^{2}3x+4} = \frac{A}{x+1} + \frac{A}{x-4}$$

$$x = A(x-4) + B(x+1)$$

$$x' = A + B = 1$$

$$x'' = \frac{A}{5A} = \frac{1}{5A}$$

$$A = \frac{1}{5}$$

$$A = \frac{1}{5}$$

$$A = \frac{1}{5}$$

$$X = \frac{4}{5}$$

$$X = \frac{4}{5}$$

3+32+ ... +3"==3(32-1) For  $n=1 \Rightarrow 3 \stackrel{?}{=} \frac{3}{3} (3-1)$   $3 = 3 \checkmark P_i$  is true. Priotone: 3+...+3 = 3 (3 -1) is Pari: 3+...+3 +3 = = = (2 k+1)?  $3+\dots+3^{k+3}$   $= \frac{3}{2}(3^{k}-1)+3^{k+1}$   $= \frac{1}{2}(3^{k+1}-3)+\frac{2}{2}3^{k+1}$ 1 = 1 (3 k+1 3 + 2.3 ) Text is also true. .. By the mathematical holuction, the given proof is completed.

3+ -- +3+3 = 3(3k1)+3k41

(h)? (= 10 + xis 12 (24) clear