

#Subsets =
$$\sum_{k=0}^{\infty} (\#Subsets) = \sum_{k=0}^{\infty} (\Lambda)$$

base
$$N=0$$
: $\left[f(x)g(x)\right] = f(x)g(x)$

$$\frac{2}{k=0} \left(x\right) f(k)(n-k) = fg$$

$$k=0$$

$$\frac{1}{2} \left(\frac{1}{k} \right) \left(\frac{$$

3. Show that the Fibonacci sequence F_n satisfies

$$F_{5n+2} > 10^n$$

for all $n \geq 1$.

$$X > \frac{1+\sqrt{5}}{2}, \beta = \frac{1-\sqrt{5}}{2}$$

$$F_2 = 1+1=2710^{\circ} = 1$$
 $F_7 = 13710' = 10$