Discrete Maths



Y=0 9, 9, 9, 9, 162, ---) Ex. 9 = (2,6,18,54,162,---) End the generating function. $G(X) = 2 \cdot x^{0} + 6 \cdot x^{1} + 18 \cdot x^{2} + 54 \cdot x^{3} + 162 \cdot x^{4} + \dots$ terut: Greomatric Progression The term of the strong of the

$$= 2 \left(1 + 34 \right) + 27 \times^{3} + 27 \times^{3} + \dots$$

$$= 2$$

$$1 - 3 \times$$

$$4 (x) = 2$$

$$1 - 3 \times$$

$$1 - 3 \times$$

v. Pwoe!

$$\frac{d(1)}{dx} = (1-x)^{2}$$

$$\frac{d(1)}{dx} = 0 + 1 + 2x + 3x^{2} + ---$$

$$(-1) = 1 + 2x + 3x^{2} + ---$$

-1 Fibonacci f(n) = f(n-1) + f(n-2) f(n) = f(n-1) + f(n-2)

$$2e \qquad 0 - 1$$

$$2xxx \Rightarrow 0 - 0 = 0$$

$$2xxxx \Rightarrow 0 - 0 = 0$$

$$x = 0 = 0$$

Applications of governing - Find exact formula for the members of seg - Find a recurrence formula - Find arg. and other Stats -prove unimodality - Prove any two gets becombiance you may discover that both soluted.