Conclose 
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$
  
Conclos (a=b)  $x^2 + y^2 = a^2$   
Hypubolice  $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$   
maximaxis

5.5 Infinite Degenences

a, a, ..., and formula

EX 1st 21 forms and 10th } \\ \frac{1}{n+1}}

$$n = 3 \Rightarrow \frac{3}{3+1} = \frac{3}{4}$$

$$C_{n} = \frac{n}{n+1} \qquad \begin{cases} C_{x} 1 = \frac{x}{x+1} \end{cases}$$

$$EX \qquad (SA \qquad 4 \text{ (oth } \qquad | 2 + (\cdot 1)^{2})$$

$$N=1 \rightarrow 2 + (\cdot 1)^{2} = 2 + \cdot 1 = 2 \cdot 1$$

$$N=2 \rightarrow 2 + (\cdot 1)^{2} = 2 + \cdot 01 = 2 \cdot 01$$

$$N=3 \rightarrow 2 + (\cdot 1)^{3} = 2 + \cdot 001 = 2 \cdot 001$$

$$N=4 \rightarrow 2 + (\cdot 1)^{24} = 2 + \cdot 0001 = 2 \cdot 0001$$

$$N=10 \Rightarrow 2 + (\cdot 1)^{10} = 2 \cdot 00000000001$$

$$C_{1} = \begin{pmatrix} 1 \\ 1 \end{pmatrix} \begin{pmatrix} 1 \\$$

$$1 = 10 \Rightarrow 343$$

$$1 = 10 \Rightarrow 343$$

$$0 = 3$$

$$0 = 3$$

$$0 = 30$$

$$0 = 30$$

$$0 = 30$$

$$0 = 30$$

$$0 = 30$$

$$0 = 30$$

n=3 Q4 = 4Q3 = U(181 = 72)

$$C_{1} = \frac{(-1)^{2}}{2(3)} = \frac{(-1)^{2}}{3(4)}$$

$$C_{2} = \frac{(-1)^{2}}{3(4)} = \frac{1}{3(4)}$$

$$C_{3} = \frac{(-1)^{3}}{4(5)} = \frac{-1}{2\omega}$$

$$C_{4} = \frac{(-1)^{4}}{5(6)} = \frac{1}{3(6)}$$

$$C_{8} = \frac{(-1)^{2}}{8(9)} = \frac{1}{72}$$

$$A_{1} = \sqrt{2}$$

$$A_{2} = \sqrt{2}$$

$$A_{3} = \sqrt{2}$$

$$A_{4} = \sqrt{2}$$

$$A_{5} = \sqrt{2}$$

$$A_{7} = \sqrt{$$

$$\sum_{k=1}^{n} c = nc$$

$$\sum_{k=m}^{n} c = (n-m+1)c$$

$$c : constant$$

$$n-1+1$$

$$\sum_{k=10}^{20} 5 = 5(20-10+1)$$

$$= 55$$

$$\sum_{k=1}^{n} (a_k + b_n) = \sum_{k=1}^{\infty} a_k + \sum_{k=1}^{\infty} b_n$$

$$\sum_{k=1}^{n} c a_k = c$$

$$\sum_{k=1}^{\infty} a_k$$

$$2 + 2^{2} + 2^{3} + \cdots + 2^{16} = \sum_{n=1}^{16} 2^{n}$$

# 
$$dl$$
,  $s \neq 1$ 

#  $dl$ ,  $s \neq 1$ 
 $k = 2s = 3$ 
 $= \frac{1}{13} (5 \neq 1 - 2s = 3 + 1)$ 
 $= \frac{3}{13} (5 \neq 1 - 2s = 3 + 1)$ 
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$$\begin{array}{ll} Cx & 1, 4, 7, 10, ---, 3n-2, --\\ 2d = 4-1=3\\ d = Q_{k+1}-Q_k\\ & = \left[3(k+1)-2\right]-\left(3k-2\right]\\ & = 3k+3-2-3k+2\\ & = 3\end{array}$$

 $\begin{array}{l} (1) & (1) & (2) &$ 

 $\frac{E \times a_{y} = 5}{4} = \frac{30 - 5}{9 - 4} = \frac{15}{5}$   $\frac{5 \log e}{4 - 4} = \frac{31}{5}$   $\frac{31}{(4-1)} = \frac{31}{5}$ 

$$\begin{array}{l}
\alpha_{11} = \alpha_{1} + 3(3) = 5 \\
(\alpha_{1} = 5 - 9 \\
= -4)
\end{array}$$

$$\begin{array}{l}
\alpha_{6} = -4 + 5(3) \\
= 11 \\
\end{array}$$

$$\begin{array}{l}
\gamma_{11} = \frac{1}{2} \left[ 2\alpha_{1} + (n-1)d \right] \\
= \frac{1}{2} \left( \alpha_{1} + \alpha_{2} \right)
\end{array}$$

$$\begin{array}{l}
\gamma_{12} = \frac{1}{2} \left( \alpha_{1} + \alpha_{2} \right)
\end{array}$$

$$\begin{array}{l}
\gamma_{13} = \frac{1}{2} \left( \alpha_{1} + \alpha_{2} \right)
\end{array}$$

$$\begin{array}{l}
\gamma_{14} = \frac{1}{2} \left( \alpha_{1} + \alpha_{2} \right)
\end{array}$$

$$\begin{array}{l}
\gamma_{15} = \frac{1}{2} \left( \alpha_{1} + \alpha_{2} \right)
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\gamma_{15} = \frac{1}{2} \left( \alpha_{1} + \alpha_{2} \right)$$

$$\begin{array}{l}
\gamma_{15} = \frac{1}{2} \left( \alpha_{1} + \alpha_$$

$$=\sum_{n=1}^{6}\frac{n}{5n-1}$$

$$4, 9, 14, 19, 24, 29$$

$$d = 9 - 4 = 5$$

$$0_n = 4 + (n-1)(5)$$

$$= 4 + 5n - 5$$

$$= 5n - 1$$

$$d = \frac{-50}{40-15} = -\frac{50}{25}$$

#

Geometric se quence

$$\frac{Q_{k+1}}{Q_k} = \Lambda$$

Common Ratio

A

