

Number of primes between A and B

$$\pi_{A,B} \sim \int_A^B \frac{dx}{\ln(x)}$$

$$f(a,b)=\sum_{n=-\infty}^{\infty}a^{\frac{n(n+1)}{2}}b^{\frac{n(n-1)}{2}}$$

$$1 + 2 + 3 + 4 + 5 + 6 + \dots$$

$$= -\frac{1}{12}$$

