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$$\zeta(2) = \frac{\pi^2}{6}$$

$$\sum_{n \geq 1} \frac{1}{n^2} = \frac{1}{6} + \frac{1}{108} + \frac{1}{196} + \dots$$

$$\zeta(2n) = 1 + 2^{-2n} + 3^{-2n} + 4^{-2n} + \dots$$

$$\sum_{n \geq 1} \zeta(2n) x^{2n} \stackrel{x \rightarrow 0}{=} \frac{\pi x}{2} \cot(\pi x)$$

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$$\sum_{n \geq 1} \zeta(2n) x^{2n} \stackrel{x \rightarrow 0}{=} \frac{\pi x}{2} \cot(\pi x)$$

$$\frac{x}{2} = \frac{1}{2} \sum_{j=1}^{\infty} \frac{1}{x^2 - j^2}$$

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$$\zeta(6) = \frac{\pi^6}{945}$$

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$$\frac{1}{6} = \frac{1}{\pi^2} \times \sum_{n \geq 1} \frac{1}{n^2}$$

$$\zeta(0) = \frac{\pi^2}{6}$$

$$\zeta(4) = \frac{\pi^4}{90}$$

$$1 + 2^{-2n} + 3^{-2n} + 4^{-2n} + \dots$$

$$\zeta(2n)$$

$$\sum_{n \geq 1} \zeta(2n) x^{2n} = \frac{\pi x}{2} \cot(\pi x) = \frac{1}{x^2 - \pi^2}$$