

$$\frac{\pi x_{\mathfrak{s}}}{\pi x} = \prod_{n \geq 1} \left(1 - \frac{x^2}{n^2}\right) = \prod_n^{\mathbb{Z}^{\times}} \left(1 - \frac{x}{n}\right)$$

$$\prod_{1 \leq k \leq 2m+1} \left(1 - y^2 \frac{1 + \frac{2\pi k}{(2m+1)\mathfrak{c}}}{1 - \frac{2\pi k}{(2m+1)\mathfrak{c}}}\right) = \frac{\overline{1 + iy}^n - \overline{1 + iy}^n}{2iy}$$

$$\prod_{1 \leq k \leq 2m+1} \left(1 - \frac{x^2}{n^2} \frac{1 + \frac{2\pi k}{(2m+1)\mathfrak{c}}}{1 - \frac{2\pi k}{(2m+1)\mathfrak{c}}}\right) = \frac{\overline{1 + ix/n}^n - \overline{1 + ix/n}^n}{2ix} \rightsquigarrow \frac{x_{\mathfrak{s}}}{x}$$

$$\left(1 - \frac{x^2}{n^2}\right) = \left(1 - \frac{x}{n}\right) \left(1 + \frac{x}{n}\right) = \left(1 - \frac{x}{n}\right) \left(1 - \frac{x}{-n}\right)$$

$$\frac{\sinh(\pi x)}{\pi x} = \prod_{n \geq 1} \left(1 + \frac{x^2}{n^2}\right)$$

$$\pi x_{\mathfrak{c}} = \prod_{n \geq 0} \left(1 - \frac{x^2}{(n + 1/2)^2}\right)$$

$$\cosh(\pi x) = \prod_{n \geq 0} \left(1 + \frac{x^2}{(n + 1/2)^2}\right)$$