

$$\frac{x+4}{x+3}$$

$$\left[\frac{x^4}{3^x} + 1 + \frac{\sin^4 x}{3^x} + \frac{2}{3^x} \right]$$

$$\left[1 + \frac{x^4}{3^x} + \frac{\sin^4 x}{3^x} + \frac{2}{3^x} \right]$$

$$= \sqrt[5]{3}$$

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$$\frac{2x^3 - 5x^2 + 3}{x^4 + 2\cos x + 1}$$

$$\lim_{x \rightarrow -\infty} (e^{-x} + \arctan x + 2)$$

$$\frac{2x^3 - 5x^2 + 3}{x^4 + 2\cos x + 1} \log e^{-x} \left(1 + \frac{\arctan x}{e^{-x}} + \frac{2}{e^{-x}} \right)$$

$$= \lim_{x \rightarrow -\infty} e$$

$$\frac{2x^4 - 5x^3 + 3x}{x^4 + 2\cos x + 1}$$

$$\frac{2x^3 - 5x^2 + 3}{x^4 + 2\cos x + 1} \log \left(1 + \frac{\arctan x + 2}{e^{-x}} \right)$$

$$= \lim_{x \rightarrow -\infty} e$$

$$= e^{-2} \cdot e^0 = \frac{1}{e^2}$$

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