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$$\lim_{x\to-\infty} \frac{e^{-x} + x^4 + 5x^3 - 7\cos x + 2}{e^{-x-1} + 2x^5 + \operatorname{arctg} x + 1} =$$

$$= \lim_{x\to-\infty} \frac{e^{-x}\left(1 + \frac{x^4}{e^{-x}} + 5\frac{x^3}{e^{-x}} - \frac{7\cos x}{e^{-x}} + \frac{2}{e^{-x}}\right)}{e^{-x}\left(e^{-1} + 2\frac{x^5}{e^{-x}} + \frac{\operatorname{arctg} x}{e^{-x}} + \frac{1}{e^{-x}}\right)} =$$

$$= \frac{1 + 0 + 5\cdot 0 - 7\cdot 0 + 0}{\frac{1}{e} + 0 + 0 + 0} = e$$