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$$\lim_{x\to+\infty} \sqrt{5^x+x^2+x+2} - \sqrt{3^x+7x^5+x-4} =$$

$$= \lim_{x\to+\infty} \sqrt{5^x+x^2+x+2} \left(\sqrt{\frac{5^x\left(1+\frac{x^2}{5^x}+\frac{x}{5^x}+\frac{?}{5^x}\right)}{3^x\left(1+\frac{7x^5}{3^x}+\frac{x}{3^x}-\frac{4}{3^x}\right)}} - 1 \right) =$$

$$= \infty(\infty - 1) = \infty$$