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$$\lim_{x \rightarrow +\infty} \sqrt{3x^2 + x + 1} - \sqrt{x^2 + 5x + 3} =$$

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

$$= \infty (\sqrt{3} - 1) = \infty$$