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$$\lim_{x \rightarrow +\infty} \sqrt{\frac{x^2+1}{x^2+3}} - \sqrt{\frac{2x^2+3x}{2x^2-4}} =$$

$$= \lim_{x \rightarrow +\infty} \sqrt{1 + \frac{x^2+1}{x^2+3}} - 1 - \sqrt[3]{1 + \frac{2x^2+3x}{2x^2-4}} - 1 =$$

$$= \lim_{x \rightarrow +\infty} \sqrt{1 + \frac{x^2+1-x^2-3}{x^2+3}} - \sqrt[3]{1 + \frac{2x^2+3x-2x^2-4}{2x^2-4}} =$$

$$= \lim_{x \rightarrow +\infty} \sqrt{1 - \frac{2}{x^2+3}} - \sqrt[3]{1 + \frac{3x+4}{2x^2-4}} =$$

$$= \lim_{x \rightarrow +\infty} \left( 1 - \frac{2}{x^2+3} \right)^{\frac{1}{2}} - 1 - \left[ \left( 1 + \frac{3x+4}{2x^2-4} \right)^{\frac{1}{3}} - 1 \right] =$$

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

$$\lim_{x \rightarrow +\infty} \frac{\left( 1 + \frac{3x+4}{2x^2-4} \right)^{\frac{1}{3}} - 1}{\frac{3x+4}{2x^2-4}} =$$

$$= \frac{1}{2} \cdot 0 - \frac{1}{3} \cdot 0 = 0$$

G H I JK L M N O