$$\lim_{x\to+\infty}\left[\frac{\sqrt{2x+3}-\sqrt{x^2+1}}{x-2}\right]=$$

$$\lim_{x\to\infty}\frac{\sqrt[3]{1-8x^3}}{x+1}=$$

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

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

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

$$\lim_{x\to+\infty}\left(\sqrt{x}\cdot\left(\sqrt{x+1}-\sqrt{x}\right)\right)=$$

$$\lim_{x\to-\infty}\left(\sqrt{x^2+2x+4}+\sqrt{9x^2-1}-4x\right)=$$

$$\lim_{x\to\infty}\left(\frac{2x^3-x^2-8x+4}{x^2-4}-\sqrt{4x^2+5x-1}\right)=$$

$$\lim_{x\to\infty}\left(x\cdot\left(\sqrt{x^2+5x+8}-\sqrt{x^2+5x-4}\right)\right)=$$

$$\lim_{x \to +\infty} \left[\frac{\sqrt{2x+3} - \sqrt{x^2+1}}{x-2} \right] =$$

$$\lim_{x \to \infty} \frac{\sqrt[3]{1-8x^3}}{x+1} =$$

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

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

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

$$\lim_{x \to +\infty} \left(\sqrt{x} \cdot \left(\sqrt{x+1} - \sqrt{x} \right) \right) =$$

$$\lim_{x \to -\infty} \left(\sqrt{x^2 + 2x + 4} + \sqrt{9x^2 - 1} - 4x \right) =$$

$$\lim_{x \to \infty} \left(\frac{2x^3 - x^2 - 8x + 4}{x^2 - 4} - \sqrt{4x^2 + 5x - 1} \right) =$$

$$\lim_{x \to \infty} \left(x \cdot \left(\sqrt{x^2 + 5x + 8} - \sqrt{x^2 + 5x - 4} \right) \right) =$$