

CALCULUL LIMITELOR CU FACTOR

FORTAT LA FUNCTII RATIONALE

Calculati limitele:

$$1) \lim_{x \rightarrow \infty} \frac{2x+1}{-x^2+3} \text{ si } \lim_{x \rightarrow -\infty} \frac{3x+1}{-x^2+4}$$

$$2) \lim_{x \rightarrow -\infty} \frac{2x-x^2}{3x+1} \text{ si } \lim_{x \rightarrow \infty} \frac{3x+x^2}{2x-1}$$

$$4) \lim_{x \rightarrow \infty} \frac{2x-5}{4x+2} \text{ si } \lim_{x \rightarrow -\infty} \frac{2x-5}{4x+2}$$

$$5) \lim_{x \rightarrow \infty} \sqrt[3]{\frac{x^3+2x}{8x^2+2x+1}} \text{ si } \lim_{x \rightarrow -\infty} \frac{\sqrt{x^2+5}}{2x+1}$$

$$6) \lim_{x \rightarrow -\infty} \frac{\sqrt{4x^4+3x^3}}{4x^2+6x} \text{ si } \lim_{x \rightarrow -\infty} \frac{\sqrt{x^2+2}}{2x+1}$$

$$7) \lim_{x \rightarrow -\infty} \frac{\sqrt{2x^6+x^5}}{3x^2+x} \text{ si } \lim_{x \rightarrow -\infty} \frac{2x+1}{\sqrt{4x^2+x}}$$

$$8) \lim_{x \rightarrow \infty} (2x-x^3+1) \text{ si } \lim_{x \rightarrow -\infty} (x-2x^2+1)$$

$$9) \lim_{x \rightarrow -\infty} (x-2x^3+5) \text{ si } \lim_{x \rightarrow \infty} (2x^2-x+1)$$